

# Data Dictionary Data Model

*for use with Invantive SQL*



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This manual is a reference guide intended to clarify usage. If data in the sample images match data in your system, the similarity is coincidental.

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## 1 SQL Driver for Data Dictionary

Use the "Search" option in the left menu to search for a specific term such as the table or column description. When you already know the term, please use the "Index" option. When you can't find the information needed, please click on the Chat button at the bottom or place your question in the [user community](#). Invantive Support or other users will try to help you.

The Invantive UniversalSQL data dictionary contains the metadata of your current environment.

The Data Dictionary driver covers 76 tables and 1704 columns.

### Data Dictionary Clients

Invantive UniversalSQL is available on many user interfaces ("clients" in traditional server-client paradigm). All Invantive UniversalSQL statements can be exchanged with a close to 100% compatibility across all clients and operating systems (Windows, MacOS, Linux, iOS, Android).

The clients include Microsoft Excel, Microsoft Power BI, Microsoft Power Query, Microsoft Word and Microsoft Outlook. Web-based clients include Invantive Cloud, Invantive Bridge Online as OData proxy, Invantive App Online for interactive apps, Online SQL Editor for query execution and Invantive Data Access Point as extended proxy.

For technical users there are command-line editions of Invantive Data Hub running on iOS, Android, Windows, MacOS and Linux. Invantive Data Hub is also often used for enterprise server applications such as ETL.

### Specifications

The SQL driver for Data Dictionary does not support partitioning.

An introduction into the concepts of Invantive UniversalSQL such as databases, data containers and partitioning can be found in the [Invantive UniversalSQL grammar](#).

The configuration can be changed using various attributes from the database definition, on log on and during use. A full list of configuration options is listed in the [driver attributes](#)<sup>2</sup>.

The catalog name is used to compose the full qualified name of an object like a table or view. The schema name is used to compose the full qualified name of an object like a table or view. On Data Dictionary the comparison of two texts is case sensitive by default.

Changes and bug fixes on the Data Dictionary SQL driver can be found in the [release notes](#). Get access to the community through the [Data Dictionary section](#) of the Invantive forums.

Driver code for use in settings.xml: `DataDictionary`

Alias: `dd`

Recommended alias: `dd`

For example, the view `SystemTables@DataDictionary` contains every available table and view in the current database. Besides object definitions also actual execution information is available in views. For example, the view `SystemSqlArea@DataDictionary` contains all executed and cached Invantive SQL statements. The data in the data dictionary views is generated dynamically by Invantive SQL from the runtime environment. Changing data in the data dictionary views is not possible.

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## 2 SQL Driver Attributes for Data Dictionary

The SQL driver for Data Dictionary has many attributes that can be finetuned to improve handling in scenarios with unreliable network connections to the Data Dictionary server or high volumes of data. Also, many drivers have driver-specific attributes to finetune actual behaviour or handle data not matching specifications.

The Data Dictionary driver attributes are assigned a default value which seldom requires change. However, changes can be applied when needed on four levels, which are reflected in the table below by separate checkmarks:

- Connection string: the connection string from the settings\*.xml file and applied during log on.
- Set SQL statement: a set SQL-statement to be executed once connection has been established.
- Log on: value to be specified interactively by user during log on in a user interface.

The connection string for Data Dictionary can be found in the settings\*.xml file used for the database. The reference manuals contain instructions how to relocate the settings\*.xml files. Settings\*.xml files are typically located in the %USERPROFILE%\invariant folder in most deployment scenarios. Each data container of a database in the connection string can have a `connectionString` element specifying the name and values of attributes. Both name and value must be properly escaped according to XML-semantics. Actual application of the value is solely done during log on. A new connection must be established to change the value of a driver attribute using a connection string.

The set SQL statement can be executed after log on. The syntax is: `set NAME VALUE`, or for a distributed database: `set NAME@ALIAS VALUE`. In some scenarios you may need to enclose the driver attribute name in square brackets to escape it from parsing, for instance when a reserved SQL keyword is part of the name. The new value takes effect straight after execution of the set-statement. The set-statement can be executed as often as needed during a session.

Driver attributes that can be interactively set to a value are typically presented in the log on window. Depending on the platform and design decisions of the user interface designer, some or all of the available driver attributes can have been made available.

The Data Dictionary driver can be configured using the following attributes:

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
analysis-enforce-row-uniqueness	Enforce rows to be unique for software analysis. A fingerprint is calculated from the whole row of data when the primary key column is unknown.	Shared	False	✓	✓	✓	
bulk-delete-page-size-rows	Number of rows to delete per batch when bulk deleting.	Shared	10000	✓	✓	✓	
bulk-insert-page-size-bytes	Approximate maximum size in bytes of batch when bulk inserting.	Shared	10000000	✓	✓	✓	
bulk-insert-page-size-rows	Number of rows to insert per batch when bulk inserting.	Shared	10000	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
connection-string	The connection string for the backing database.	Data Dictionary		✓		✓	
force-case-sensitive-identifiers	Consider identifiers as case-sensitive independent of the platform capabilities.	Shared	False	✓	✓	✓	
forced-casing-identifiers	Forced casing of identifiers. Choose from: Unset, Lower, Upper and Mixed.	Shared		✓	✓	✓	
http-disk-cache-compression-level	Compression level for the HTTP disk cache, ranging from 1 (little) to 9 (intense). Default is 5.	Shared	5	✓	✓	✓	
http-disk-cache-directory	Directory where HTTP cache is stored.	Shared	C:\Users\guido\In-variantive\Cache\http\guido\shared	✓	✓	✓	
http-disk-cache-ignore-write-errors	Whether to ignore write errors to disk cache.	Shared	False	✓	✓	✓	
http-disk-cache-max-age-sec	Maximum acceptable age in seconds for use of data in the HTTP disk cache.	Shared	2592000	✓	✓	✓	
invariantive-sql-compress-sparse-arrays	Whether to compress sparse arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invariantive-sql-correct-invalid-date	Whether to correct dates considered invalid since they are before 01-01-1753. When nullable, they are removed. Otherwise they are replaced by 01-01-1753.	SQL Engine V1	False	✓	✓	✓	
invariantive-sql-execution-profile-disk-path	itgen_pae_invariantive_sql_execution_profile_disk_path	SQL Engine V1	c:\temp\profiles	✓	✓	✓	
invariantive-sql-execution-profile-to-disk	itgen_pae_invariantive_sql_execution_profile_to_disk	SQL Engine V1	True	✓	✓	✓	
invariantive-sql-forward-filters-to-data-containers	Whether to forward filters to data containers.	SQL Engine V1	True	✓	✓	✓	
invariantive-sql-share-byte-arrays	Whether to share the memory used by identical byte arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invariantive-sql-share-strings	Whether to share the memory used by identical strings in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invariantive-sql-shuffle-fetch-results-data-containers	Whether to shuffle results fetched from data containers.	SQL Engine V1	False	✓	✓	✓	
invariantive-use-cache	Whether to cache the results of a query.	SQL Engine V1	True	✓	✓	✓	
log-native-calls-to-disk-max-events	Maximum number of call events to register from last activation.	Shared		✓	✓	✓	



Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
log-native-calls-to-disk-max-seconds	Maximum number of seconds to register calls from last activation.	Shared		✓	✓	✓	
log-native-calls-to-disk-on-error	Registers native calls to data container backend as disk files when the call raised an error.	Shared	False	✓	✓	✓	
log-native-calls-to-disk-on-success	Registers native calls to data container backend as disk files when the call raised no error.	Shared	False	✓	✓	✓	
log-native-calls-to-trace	Log native calls to data container backend on the trace.	Shared	False	✓	✓	✓	
maximum-length-identifiers	Non-default maximum length in characters of identifier names.	Shared		✓	✓	✓	
max-url-length-accepted	The maximum accepted URL length before raising an error.	Shared	8000	✓	✓	✓	
max-url-length-desired	The maximum desired URL length.	Shared	8000	✓	✓	✓	
partition-slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a partition-based rate limit.	Shared	60000	✓		✓	
partition-slot-based-rate-limit-slots	Number of slots per partition-based rate limit. Null means no slot-based rate limit.	Shared		✓		✓	
pre-request-delay-ms	Pre-request delay in milliseconds per request.	Shared	0	✓	✓	✓	
provider	Name of the Invariant connector for the backing database.	Data Dictionary		✓		✓	
requested-page-size	Preferred number of rows to exchange per round trip; only effective on limited platforms such as AFAS Online.	Shared		✓	✓	✓	
requests-parallel-max	Maximum number of parallel data requests from individual partitions on the data container.	Shared	32	✓	✓	✓	
slot-based-rate-limit-length-ms	Total length in milliseconds across all slots of a slot-based rate limit.	Shared	60000	✓		✓	
slot-based-rate-limit-slots	Number of slots of a slot-based rate limit. Null means no slot-based rate limit.	Shared		✓		✓	
standardize-identifiers	Rewrite all identifiers to the preferred standards as configured by standardize-identifiers-casing and maximum-length-identifiers.	Shared	True	✓	✓	✓	
standardize-identifiers-casing	Rewrite all identifiers to the recommended standard platform-specific casing when changing a data model on a case-dependent platform.	Shared	True	✓	✓	✓	
use-http-disk-cache-read	Whether to use HTTP responses from previous queries stored on disk to answer the current query.	Shared	False	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
use-http-disk-cache-write	Whether to memorize HTTP responses on disk.	Shared	False	✓	✓	✓	

## 3 Catalog: DataDictionary

### 3.1 Schemas

#### 3.1.1 Schema: Invantive

##### 3.1.1.1 Tables

#### AUDITEVENTS: Data Dictionary Audit Events

Application-specific events for billing, monitoring and analysis.

Catalog: DataDictionary

Schema: Invantive

Alias: aet

Label: Audit Events

Retrieve: true

Insert: true

Update: false

Delete: false

### View Columns

The columns of the view AUDITEVENTS are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert.

Name	Data Type	Label	Required	Documentation
APPLICATION_NAME	string(240)	Application Name	<input checked="" type="checkbox"/>	Application name.
APPLICATION_USER	string(240)	Application User	<input type="checkbox"/>	Application user.
BILLING_ID	string	Billing ID	<input type="checkbox"/>	ID for billing.
BILLING_POOL_IDENTITY_ID	string	Billing Pool Identity ID	<input type="checkbox"/>	Pool identity ID for billing.
BILLING_REFERENCE	string	Billing Reference	<input type="checkbox"/>	Reference for billing, such as your cost centers.
DATA_CONTAINER_ID	string	Data Container ID	<input checked="" type="checkbox"/>	ID of the data container.
DIMENSION1_NAME	string	Dimension 1 Name	<input type="checkbox"/>	Name of dimension 1.
DIMENSION1_VALUE	string	Dimension 1 Value	<input type="checkbox"/>	Value of dimension 1.
DIMENSION10_NAME	string	Dimension 10 Name	<input type="checkbox"/>	Name of dimension 10.
DIMENSION10_VALUE	string	Dimension 10 Value	<input type="checkbox"/>	Value of dimension 10.
DIMENSION11_NAME	string	Dimension 11 Name	<input type="checkbox"/>	Name of dimension 11.
DIMENSION11_VALUE	string	Dimension 11 Value	<input type="checkbox"/>	Value of dimension 11.

Name	Data Type	Label	Required	Documentation
DIMENSION12_NAME	string	Dimension 12 Name	<input type="checkbox"/>	Name of dimension 12.
DIMENSION12_VALUE	string	Dimension 12 Value	<input type="checkbox"/>	Value of dimension 12.
DIMENSION13_NAME	string	Dimension 13 Name	<input type="checkbox"/>	Name of dimension 13.
DIMENSION13_VALUE	string	Dimension 13 Value	<input type="checkbox"/>	Value of dimension 13.
DIMENSION14_NAME	string	Dimension 14 Name	<input type="checkbox"/>	Name of dimension 14.
DIMENSION14_VALUE	string	Dimension 14 Value	<input type="checkbox"/>	Value of dimension 14.
DIMENSION15_NAME	string	Dimension 15 Name	<input type="checkbox"/>	Name of dimension 15.
DIMENSION15_VALUE	string	Dimension 15 Value	<input type="checkbox"/>	Value of dimension 15.
DIMENSION16_NAME	string	Dimension 16 Name	<input type="checkbox"/>	Name of dimension 16.
DIMENSION16_VALUE	string	Dimension 16 Value	<input type="checkbox"/>	Value of dimension 16.
DIMENSION17_NAME	string	Dimension 17 Name	<input type="checkbox"/>	Name of dimension 17.
DIMENSION17_VALUE	string	Dimension 17 Value	<input type="checkbox"/>	Value of dimension 17.
DIMENSION18_NAME	string	Dimension 18 Name	<input type="checkbox"/>	Name of dimension 18.
DIMENSION18_VALUE	string	Dimension 18 Value	<input type="checkbox"/>	Value of dimension 18.
DIMENSION19_NAME	string	Dimension 19 Name	<input type="checkbox"/>	Name of dimension 19.
DIMENSION19_VALUE	string	Dimension 19 Value	<input type="checkbox"/>	Value of dimension 19.
DIMENSION2_NAME	string	Dimension 2 Name	<input type="checkbox"/>	Name of dimension 2.
DIMENSION2_VALUE	string	Dimension 2 Value	<input type="checkbox"/>	Value of dimension 2.
DIMENSION20_NAME	string	Dimension 20 Name	<input type="checkbox"/>	Name of dimension 20.
DIMENSION20_VALUE	string	Dimension 20 Value	<input type="checkbox"/>	Value of dimension 20.
DIMENSION3_NAME	string	Dimension 3 Name	<input type="checkbox"/>	Name of dimension 3.
DIMENSION3_VALUE	string	Dimension 3 Value	<input type="checkbox"/>	Value of dimension 3.
DIMENSION4_NAME	string	Dimension 4 Name	<input type="checkbox"/>	Name of dimension 4.
DIMENSION4_VALUE	string	Dimension 4 Value	<input type="checkbox"/>	Value of dimension 4.
DIMENSION5_NAME	string	Dimension 5 Name	<input type="checkbox"/>	Name of dimension 5.
DIMENSION5_VALUE	string	Dimension 5 Value	<input type="checkbox"/>	Value of dimension 5.
DIMENSION6_NAME	string	Dimension 6 Name	<input type="checkbox"/>	Name of dimension 6.
DIMENSION6_VALUE	string	Dimension 6 Value	<input type="checkbox"/>	Value of dimension 6.
DIMENSION7_NAME	string	Dimension 7 Name	<input type="checkbox"/>	Name of dimension 7.
DIMENSION7_VALUE	string	Dimension 7 Value	<input type="checkbox"/>	Value of dimension 7.
DIMENSION8_NAME	string	Dimension 8 Name	<input type="checkbox"/>	Name of dimension 8.
DIMENSION8_VALUE	string	Dimension 8 Value	<input type="checkbox"/>	Value of dimension 8.
DIMENSION9_NAME	string	Dimension 9 Name	<input type="checkbox"/>	Name of dimension 9.
DIMENSION9_VALUE	string	Dimension 9 Value	<input type="checkbox"/>	Value of dimension 9.
GUI_ACTION	string(240)	GUI Action	<input type="checkbox"/>	Action performed w within the user interface.
GUI_IP_ADDRESS_EXTERNAL	string(240)	GUI External IP Address	<input checked="" type="checkbox"/>	External IP address of the GUI application.
GUI_IP_ADDRESS_INTERNAL	string(240)	GUI Internal IP Address	<input checked="" type="checkbox"/>	Internal IP address of the GUI application.
GUI_MACHINE	string(240)	GUI Machine	<input type="checkbox"/>	Name of the machine running the GUI application.

Name	Data Type	Label	Required	Documentation
GUI_MODULE_NAME	string(240)	GUI Module Name	<input type="checkbox"/>	Module w ithin the GUI application currently running.
GUI_MODULE_VERSION	string(240)	GUI Module Version	<input type="checkbox"/>	Version of module w ithin the GUI application currently running.
GUI_MODULE	string(240)	GUI Module	<input type="checkbox"/>	Module w ithin the GUI application currently running.
GUI_OS_USER	string(240)	GUI OS User	<input type="checkbox"/>	OS user running the GUI applica-tion.
IID	string	IID	<input checked="" type="checkbox"/>	Invantive installation ID.
IS_APPLICATION_MANAGED	boolean	Application Managed	<input checked="" type="checkbox"/>	Indicator w hether event w as managed by the application.
IS_MONITORING	boolean	Is Monitoring	<input type="checkbox"/>	Indicator w hether event must be forw arded for monitoring.
IUID	string	IUID	<input checked="" type="checkbox"/>	Invantive user ID.
LAST_LOGON_TIME	datetime	Logon Time	<input type="checkbox"/>	Date at w hich the last logon found place.
LAST_NATURAL_KEY	string(4000)	Last Natural Key	<input type="checkbox"/>	Last seen natural key of busi-ness object.
LICENSE_CONTRACT_CODE	string	License Contract Code	<input checked="" type="checkbox"/>	License contract code.
LICENSE_KEY_IDENTIFIER	string	License Key Identifier	<input checked="" type="checkbox"/>	License key identifier.
LOGGING_LEVEL	string(30)	Logging Level	<input checked="" type="checkbox"/>	Type of logging message.
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
MESSAGE_CODE	string(30)	Message Code	<input type="checkbox"/>	Code of the message. May not start w ith 'itgen' or 'bubs'.
MESSAGE_UID	guid	Message UID	<input checked="" type="checkbox"/>	Specific UID for easy recogni-tion.
METRIC_NAME	string	Metric Name	<input type="checkbox"/>	Name of monitoring metric.
METRIC_VALUE	string	Metric Value	<input type="checkbox"/>	Value of monitoring metric.
OCCURRENCE_DATE_UTC	datetime	Occurrence Date (UTC)	<input checked="" type="checkbox"/>	UTC date at w hich the event oc-curred.
PARAMETER_VALUES	string(4000)	Parameter Values	<input type="checkbox"/>	Parameter values.
PARTITION	string(240)	Partition	<input type="checkbox"/>	Specific partition on w hich the event w as registered.
POOL_IDENTITY	string(60)	Pool Identity	<input type="checkbox"/>	Pool identity.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider in-stance.
PROVIDER_NAME	string	Provider	<input type="checkbox"/>	Name of provider.
REFERENCE_KEY	string	Reference Key	<input type="checkbox"/>	Key of the referenced business object.
REFERENCE_TABLE_CODE	string	Reference Table Code	<input type="checkbox"/>	Table code of the referenced business object.
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
SERVICE_NAME	string	Service Name	<input type="checkbox"/>	Name of service.
SERVICE_STATE	string	Service State	<input type="checkbox"/>	Status of service (production, acceptance, test).
SESSION_ID	string(240)	Session ID	<input checked="" type="checkbox"/>	ID of the session.

Name	Data Type	Label	Required	Documentation
SHOWN_TO_USER	boolean	Show n to User	<input checked="" type="checkbox"/>	Indicator w hether event w as show n to the user.
SQL_STATEMENT	string(4000)	SQL Statement	<input type="checkbox"/>	SQL statement.
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.
UNIT_OF_MEASURE	string	Unit of Measure	<input type="checkbox"/>	Unit of Measure of value of mon-itoring metric.
USER_MESSAGE	string	User Message	<input type="checkbox"/>	Text of the message w ithout message code.

### CALENDAR: Data Dictionary Calendar

Mapping from dates to date-related integers such as year and day in week.

Catalog: DataDictionary

Schema: Invantive

Alias: clr

Label: Calendar

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view CALENDAR are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CENTURY_NUMBER	int32	Century Number	<input checked="" type="checkbox"/>	The number of the century.
DAY_DATE	datetime	Day Date	<input checked="" type="checkbox"/>	The date of the day.
DAY_IN_MONTH	int32	Day in Month	<input checked="" type="checkbox"/>	The number of the day in the month.
DAY_IN_WEEK	int32	Day in Week	<input checked="" type="checkbox"/>	The number of the day in the w eek.
DAY_IN_YEAR_NUMBER	int32	Day in Year Number	<input checked="" type="checkbox"/>	The number of the day in the year.
DAY_SINCE_19000101_NUMBER	int64	Day Number since January 1, 1900	<input checked="" type="checkbox"/>	The number of days betw een 01/01/1900 and the day.
ERA	int32	Era	<input checked="" type="checkbox"/>	The era of the century.
ID	int32	ID	<input checked="" type="checkbox"/>	Unique ID of the day.
ISO_WEEK_NUMBER	int32	ISO Week Number	<input checked="" type="checkbox"/>	The number of the w eek by ISO.
ISO_YEAR_NUMBER	int32	ISO Year Number	<input checked="" type="checkbox"/>	The number of the year by ISO.
MONTH_NR_DAY1_IN_WEEK	int32	Month Number of First Day in Week	<input checked="" type="checkbox"/>	The number of the month on the first day in the w eek.
MONTH_NR_DAY7_IN_WEEK	int32	Month Number of Last Day in Week	<input checked="" type="checkbox"/>	The number of the month on the seventh day in the w eek.
MONTH_NUMBER	int32	Month Number	<input checked="" type="checkbox"/>	The number of the month.
WEEK_NUMBER	int32	Week Number	<input checked="" type="checkbox"/>	The number of the w eek.

Name	Data Type	Label	Required	Documentation
YEAR_NR_DAY1_IN_WEEK	int32	Year Number of Day 1 in Week	<input checked="" type="checkbox"/>	The number of the year on the first day in the week.
YEAR_NR_DAY7_IN_WEEK	int32	Year Number of Day 1 in Week	<input checked="" type="checkbox"/>	The number of the year on the seventh day in the week.
YEAR_NUMBER	int32	Year Number	<input checked="" type="checkbox"/>	The number of the year.

### DOUBLE: Data Dictionary Single Row

Table for test cases and value retrieval of singleton SQL functions.

Catalog: DataDictionary

Schema: Invantive

Alias: da1

Primary Keys: DUMMY\_INT32

Label: Single Row

This is a read-only table. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Table Columns

The columns of the table DOUBLE are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
dummy_blob_null	byte[]		<input type="checkbox"/>	
dummy_blob	byte[]	Dummy BLOB	<input checked="" type="checkbox"/>	
dummy_bool_null	boolean		<input type="checkbox"/>	
dummy_bool	boolean	Dummy Boolean	<input checked="" type="checkbox"/>	
dummy_char_null	char		<input type="checkbox"/>	
dummy_char	char		<input checked="" type="checkbox"/>	
dummy_date_null	datetime		<input type="checkbox"/>	
dummy_date	datetime	Dummy Date	<input checked="" type="checkbox"/>	A date in UTC.
dummy_datetime_null	datetime		<input type="checkbox"/>	
dummy_datetime	datetime	Dummy Date/Time	<input checked="" type="checkbox"/>	A timestamp in UTC.
dummy_decimal_null	decimal		<input type="checkbox"/>	
dummy_decimal	decimal	Dummy Decimal	<input checked="" type="checkbox"/>	
dummy_double_above	double		<input checked="" type="checkbox"/>	
dummy_double_below	double		<input checked="" type="checkbox"/>	
dummy_double_null	double		<input type="checkbox"/>	
dummy_double	double	Dummy Double	<input checked="" type="checkbox"/>	
dummy_float_null	float		<input type="checkbox"/>	
dummy_float	float	Dummy Float	<input checked="" type="checkbox"/>	
dummy_guid_null	guid		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
dummy_guid	guid	Dummy GUID	<input checked="" type="checkbox"/>	
dummy_int16_null	int16		<input type="checkbox"/>	
dummy_int16	int16	Dummy Integer (16-bits)	<input checked="" type="checkbox"/>	
dummy_int32_null	int32		<input type="checkbox"/>	
dummy_int32	int32	Dummy Integer (32-bits)	<input checked="" type="checkbox"/>	
dummy_int64_null	int64		<input type="checkbox"/>	
dummy_int64	int64	Dummy Integer (64-bits)	<input checked="" type="checkbox"/>	
dummy_string_int64	string(20)		<input type="checkbox"/>	
dummy_string_null	string(1)		<input type="checkbox"/>	
dummy_string	string(1)	Dummy String	<input checked="" type="checkbox"/>	
dummy_uint16	uint16	Dummy uint16	<input checked="" type="checkbox"/>	
dummy_uint32	uint32	Dummy uint32	<input checked="" type="checkbox"/>	
dummy_uint64	uint64	Dummy uint64	<input checked="" type="checkbox"/>	

### DUAL: Data Dictionary Single Row

Table for test cases and value retrieval of singleton SQL functions.

Catalog: DataDictionary

Schema: Invantive

Alias: da1

Primary Keys: DUMMY\_INT32

Label: Single Row

This is a read-only table. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Table Columns

The columns of the table DUAL are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
dummy_blob_null	byte[]		<input type="checkbox"/>	
dummy_blob	byte[]	Dummy BLOB	<input checked="" type="checkbox"/>	
dummy_bool_null	boolean		<input type="checkbox"/>	
dummy_bool	boolean	Dummy Boolean	<input checked="" type="checkbox"/>	
dummy_char_null	char		<input type="checkbox"/>	
dummy_char	char		<input checked="" type="checkbox"/>	
dummy_date_null	datetime		<input type="checkbox"/>	
dummy_date	datetime	Dummy Date	<input checked="" type="checkbox"/>	A date in UTC.
dummy_datetime_null	datetime		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
dummy_datetime	datetime	Dummy Date/Time	<input checked="" type="checkbox"/>	A timestamp in UTC.
dummy_decimal_null	decimal		<input type="checkbox"/>	
dummy_decimal	decimal	Dummy Decimal	<input checked="" type="checkbox"/>	
dummy_double_above	double		<input checked="" type="checkbox"/>	
dummy_double_below	double		<input checked="" type="checkbox"/>	
dummy_double_null	double		<input type="checkbox"/>	
dummy_double	double	Dummy Double	<input checked="" type="checkbox"/>	
dummy_float_null	float		<input type="checkbox"/>	
dummy_float	float	Dummy Float	<input checked="" type="checkbox"/>	
dummy_guid_null	guid		<input type="checkbox"/>	
dummy_guid	guid	Dummy GUID	<input checked="" type="checkbox"/>	
dummy_int16_null	int16		<input type="checkbox"/>	
dummy_int16	int16	Dummy Integer (16-bits)	<input checked="" type="checkbox"/>	
dummy_int32_null	int32		<input type="checkbox"/>	
dummy_int32	int32	Dummy Integer (32-bits)	<input checked="" type="checkbox"/>	
dummy_int64_null	int64		<input type="checkbox"/>	
dummy_int64	int64	Dummy Integer (64-bits)	<input checked="" type="checkbox"/>	
dummy_string_int64	string(20)		<input type="checkbox"/>	
dummy_string_null	string(1)		<input type="checkbox"/>	
dummy_string	string(1)	Dummy String	<input checked="" type="checkbox"/>	
dummy_uint16	uint16	Dummy uint16	<input checked="" type="checkbox"/>	
dummy_uint32	uint32	Dummy uint32	<input checked="" type="checkbox"/>	
dummy_uint64	uint64	Dummy uint64	<input checked="" type="checkbox"/>	

### EMPTY: Data Dictionary Empty Table

Empty table for test cases.

Catalog: DataDictionary

Schema: Invantive

Alias: ety

Primary Keys: DUMMY\_INT32

Label: Empty Table

Can retrieve data and change data using insert, update and delete.

### Table Columns

The columns of the table EMPTY are shown below. Each column has an SQL data type. A new non-null value must be provided for every required column at all times during insert and update.



Name	Data Type	Label	Required	Documentation
dummy_datetime	datetime	Dummy Date/Time	<input checked="" type="checkbox"/>	A timestamp in UTC.
dummy_decimal	decimal	Dummy Decimal	<input checked="" type="checkbox"/>	
dummy_double	double	Dummy Double	<input checked="" type="checkbox"/>	
dummy_guid	guid	Dummy GUID	<input checked="" type="checkbox"/>	
dummy_int32	int32	Dummy Integer (32-bits)	<input checked="" type="checkbox"/>	
dummy_int64	int64	Dummy Integer (64-bits)	<input checked="" type="checkbox"/>	
dummy_string	string(30)	Dummy String	<input checked="" type="checkbox"/>	

## HTTPDOWNLOAD

Catalog: DataDictionary

Schema: Invantive

This is a read-only table function. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Parameters of Table Function

The following parameters can be used to control the behaviour of the table function HTTPDOWNLOAD. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
acceptMimeType	string	<input type="checkbox"/>		OBSOLETE. Value of Accept HTTP request header.
basicAuthenticationPassword	string	<input type="checkbox"/>		Password for basic HTTP authentication.
basicAuthenticationUser	string	<input type="checkbox"/>		User for basic HTTP authentication.
binaryPayload	byte[]	<input type="checkbox"/>		Binary payload to send along. Overruled by text payload when both present.
cacheKey	string	<input type="checkbox"/>		Value to make the memory and/or disk cache location unique for your type of request.

Name	Data Type	Required	Default Value	Documentation
contentType	string	<input type="checkbox"/>		Value of Content-Type HTTP request header.
cookies	string	<input type="checkbox"/>		Cookie name and values encoded as an URL query.
diskCache	boolean	<input type="checkbox"/>		Use HTTP disk cache.
diskCacheMaxAgeSec	int32	<input type="checkbox"/>		The maximum age of a HTTP disk cache entry to be valid.
headers	string	<input type="checkbox"/>		HTTP request header key/value pairs encoded as an URL query.
ignoreInvalidCertificate	boolean	<input type="checkbox"/>		Ignore web certificate errors. Defaults to false.
ignoreWebError	boolean	<input type="checkbox"/>		Ignore web errors. Defaults to false.
method	string	<input type="checkbox"/>	GET	Method.
minimumDurationMs	int32	<input type="checkbox"/>		Extend the execution of the HTTP download to take at least this many milliseconds.
postSleepMs	int32	<input type="checkbox"/>		Post-execution delay in milliseconds.
preSleepMs	int32	<input type="checkbox"/>		Pre-execution delay in milliseconds.
textPayload	string	<input type="checkbox"/>		Text payload to send along. Overrides binary payload when both present.
timeoutMs	int32	<input type="checkbox"/>	30000	Timeout in milliseconds.
url	string	<input checked="" type="checkbox"/>		URL to download.
userAgent	string	<input type="checkbox"/>		OBSOLETE. Value of User Agent.

## Columns of Table Function

The columns of the table function HTTPDOWNLOAD are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
BYTES_RETRIEVED	int64	Bytes Retrieved	<input checked="" type="checkbox"/>	
CACHE_CONTROL	string	Cache Control	<input type="checkbox"/>	
CERTIFICATE_DATE_NOT_AFTER	datetime	Certificate not After	<input type="checkbox"/>	
CERTIFICATE_DATE_NOT_BEFORE	datetime	Certificate not Before	<input type="checkbox"/>	
CERTIFICATE_ISSUER	string	Certificate Issuer	<input type="checkbox"/>	
CERTIFICATE_SERIAL_NUMBER	string	Certificate Serial Number	<input type="checkbox"/>	
CERTIFICATE_SIGNATURE_ALGORITHM	string	Certificate Signature Algorithm	<input type="checkbox"/>	
CERTIFICATE_SUBJECT	string	Certificate Subject	<input type="checkbox"/>	
CONTENT_DISPOSITION	string	Content Disposition	<input type="checkbox"/>	
CONTENTS_BLOB	byte[]	Binary Contents	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
CONTENTS_CHAR	string	Character Contents	<input type="checkbox"/>	
DATE_RETRIEVAL_UTC	datetime	Retrieval Date (UTC)	<input checked="" type="checkbox"/>	
DEPTH	int32	Depth	<input checked="" type="checkbox"/>	
ERROR_MESSAGE_CODE	string	Error Code	<input type="checkbox"/>	
ERROR_MESSAGE_TEXT	string	Error Text	<input type="checkbox"/>	
ETAG	string	ETag	<input type="checkbox"/>	
EXPIRES	datetime	Expires	<input type="checkbox"/>	
HOST_ON_HSTS_PRELOAD_LIST	boolean	Host on HSTS Preload List	<input type="checkbox"/>	
HTTP_STATUS_CODE	int32	HTTP Status Code	<input type="checkbox"/>	
INCLUDE_INVANTIVE_SOURCE_HEADERS	boolean	Include Invariant Source Headers	<input checked="" type="checkbox"/>	
LAST_MODIFIED	datetime	Last Modified	<input type="checkbox"/>	
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
MAX_AUTOMATIC_REDIRECTIONS	int32	Maximum Number of Automatic Redirections	<input checked="" type="checkbox"/>	
MIME_TYPE	string	MIME Type	<input type="checkbox"/>	
PARENT_URL	string	Parent URL	<input type="checkbox"/>	
REQUEST_CONTENT_TYPE	string	Request Content Type	<input type="checkbox"/>	
REQUEST_COOKIES	string	Cookies	<input type="checkbox"/>	
REQUEST_HEADERS	string	Request Headers	<input type="checkbox"/>	
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
REQUEST_METHOD	string	HTTP Request Method	<input checked="" type="checkbox"/>	
REQUEST_PAYLOAD_BLOB_LENGTH	int64	Request Payload BLOB Length	<input type="checkbox"/>	
REQUEST_PAYLOAD_BLOB	byte[]	Request Payload BLOB	<input type="checkbox"/>	
REQUEST_TIMEOUT_INITIAL_MS	int64	Request Timeout Initial (ms)	<input checked="" type="checkbox"/>	
REQUEST_TIMEOUT_MAX_ON_RETRY_MS	int64	Request Timeout Maximum On Retry (ms)	<input checked="" type="checkbox"/>	
RESPONSE_HEADER_AGE	int32	Age	<input type="checkbox"/>	
RESPONSE_HEADER_CONNECTION	string	Connection	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_LANGUAGE	string	Content Language	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_LENGTH	int64	Content Length	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_MD5	string	Content MD5	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_SECURITY_POLICY	string	Content Security Policy	<input type="checkbox"/>	
RESPONSE_HEADER_DATE	datetime	Date	<input type="checkbox"/>	
RESPONSE_HEADER_EXPECT_CT	string	Expect CT	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
RESPONSE_HEADER_FEATURE_POLICY	string	Feature Policy	<input type="checkbox"/>	
RESPONSE_HEADER_KEEP_ALIVE	string	Keep Alive	<input type="checkbox"/>	
RESPONSE_HEADER_PERMISSIONS_POLICY	string	Permissions Policy	<input type="checkbox"/>	
RESPONSE_HEADER_REFERRER_POLICY	string	Referrer Policy	<input type="checkbox"/>	
RESPONSE_HEADER_SERVER	string	Server	<input type="checkbox"/>	
RESPONSE_HEADER_STRICT_TRANSPORT_SECURITY	string	Strict Transport Security	<input type="checkbox"/>	
RESPONSE_HEADER_TRANSFER_ENCODING	string	Transfer Encoding	<input type="checkbox"/>	
RESPONSE_HEADER_VIA	string	Via	<input type="checkbox"/>	
RESPONSE_HEADER_X_ASPNET_MVC_VERSION	string	ASP.Net MVC Version (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_ASPNET_VERSION	string	ASP.Net Version (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_CACHE	string	Cache (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_CONTENT_TYPE_OPTIONS	string	Content Type Options (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_FRAME_OPTIONS	string	Frame Options (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_POWERED_BY	string	Powered by (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_ROBOTS_TAG	string	Robots Tag (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_XSS_PROTECTION	string	XSS Protection (extension)	<input type="checkbox"/>	
RETRIEVAL_DURATION_MS	int64	Retrieval Duration (ms)	<input checked="" type="checkbox"/>	
RETRIEVAL_SUCCESSFUL	boolean	Retrieval is Successful	<input checked="" type="checkbox"/>	
RETURNED_URL	string	Returned URL	<input type="checkbox"/>	
SOURCE	string	Data Source	<input checked="" type="checkbox"/>	
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.
UID	guid	UID	<input checked="" type="checkbox"/>	
URL	string	URL	<input checked="" type="checkbox"/>	
USER_AGENT	string	HTTP User Agent	<input type="checkbox"/>	

### HTTPDOWNLOADCOOKIESHISTORY: Data Dictionary Download Cookies History

History of HTTP download cookies.

Catalog: DataDictionary

Schema: Invantive

Alias: hdc

Primary Keys: SEQ

Label: Download Cookies History

This is a read-only table. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Table Columns

The columns of the table HTTPDOWNLOADCOOKIESHISTORY are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
COMMENT	string	Comment	<input type="checkbox"/>	
DISCARD	boolean	Discard	<input checked="" type="checkbox"/>	
DOMAIN	string	Domain	<input type="checkbox"/>	
DOWNLOAD_UID	guid	UID	<input checked="" type="checkbox"/>	
DOWNLOAD_URL	string	URL	<input checked="" type="checkbox"/>	
EXPIRED	boolean	Expired	<input checked="" type="checkbox"/>	
EXPIRES	datetime	Expires	<input type="checkbox"/>	
HTTP_ONLY	boolean	HTTP Only	<input checked="" type="checkbox"/>	
NAME	string	Name	<input checked="" type="checkbox"/>	
PATH	string	Path	<input type="checkbox"/>	
SECURE	boolean	Secure	<input checked="" type="checkbox"/>	
TIMESTAMP	datetime	Timestamp	<input checked="" type="checkbox"/>	
VALUE	string	Value	<input type="checkbox"/>	
VERSION	int32	Version	<input type="checkbox"/>	

### HTTPDOWNLOADHISTORY: Data Dictionary HTTP Download History

History of HTTP downloads.

Catalog: DataDictionary

Schema: Invantive

Alias: hdy

Primary Keys: SEQ

Label: HTTP Download History

This is a read-only table. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Table Columns

The columns of the table HTTPDOWNLOADHISTORY are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
BYTES_RETRIEVED	int64	Bytes Retrieved	<input checked="" type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
CACHE_CONTROL	string	Cache Control	<input type="checkbox"/>	
CERTIFICATE_DATE_NOT_AFTER	datetime	Certificate not After	<input type="checkbox"/>	
CERTIFICATE_DATE_NOT_BEFORE	datetime	Certificate not Before	<input type="checkbox"/>	
CERTIFICATE_ISSUER	string	Certificate Issuer	<input type="checkbox"/>	
CERTIFICATE_SERIAL_NUMBER	string	Certificate Serial Number	<input type="checkbox"/>	
CERTIFICATE_SIGNATURE_ALGORITHM	string	Certificate Signature Algorithm	<input type="checkbox"/>	
CERTIFICATE_SUBJECT	string	Certificate Subject	<input type="checkbox"/>	
CONTENT_DISPOSITION	string	Content Disposition	<input type="checkbox"/>	
DATE_RETRIEVAL_UTC	datetime	Retrieval Date (UTC)	<input checked="" type="checkbox"/>	
DEPTH	int32	Depth	<input checked="" type="checkbox"/>	
ERROR_MESSAGE_CODE	string	Error Code	<input type="checkbox"/>	
ERROR_MESSAGE_TEXT	string	Error Text	<input type="checkbox"/>	
ETAG	string	ETag	<input type="checkbox"/>	
EXPIRES	datetime	Expires	<input type="checkbox"/>	
HOST_ON_HSTS_PRELOAD_LIST	boolean	Host on HSTS Preload List	<input type="checkbox"/>	
HTTP_STATUS_CODE	int32	HTTP Status Code	<input type="checkbox"/>	
INCLUDE_INVANTIVE_SOURCE_HEADERS	boolean	Include Invariant Source Headers	<input checked="" type="checkbox"/>	
LAST_MODIFIED	datetime	Last Modified	<input type="checkbox"/>	
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
MAX_AUTOMATIC_REDIRECTIONS	int32	Maximum Number of Automatic Redirections	<input checked="" type="checkbox"/>	
MIME_TYPE	string	MIME Type	<input type="checkbox"/>	
PARENT_URL	string	Parent URL	<input type="checkbox"/>	
REQUEST_CONTENT_TYPE	string	Request Content Type	<input type="checkbox"/>	
REQUEST_COOKIES	string	Cookies	<input type="checkbox"/>	
REQUEST_HEADERS	string	Request Headers	<input type="checkbox"/>	
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
REQUEST_METHOD	string	HTTP Request Method	<input checked="" type="checkbox"/>	
REQUEST_PAYLOAD_BLOB_LENGTH	int64	Request Payload BLOB Length	<input type="checkbox"/>	
REQUEST_TIMEOUT_INITIAL_MS	int64	Request Timeout Initial (ms)	<input checked="" type="checkbox"/>	
REQUEST_TIMEOUT_MAX_ON_RETRY_MS	int64	Request Timeout Maximum On Retry (ms)	<input checked="" type="checkbox"/>	
RESPONSE_HEADER_AGE	int32	Age	<input type="checkbox"/>	
RESPONSE_HEADER_CONNECTION	string	Connection	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_LANGUAGE	string	Content Language	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
RESPONSE_HEADER_CONTENT_LENGTH	int64	Content Length	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_MD5	string	Content MD5	<input type="checkbox"/>	
RESPONSE_HEADER_CONTENT_SECURITY_POLICY	string	Content Security Policy	<input type="checkbox"/>	
RESPONSE_HEADER_DATE	datetime	Date	<input type="checkbox"/>	
RESPONSE_HEADER_EXPECT_CT	string	Expect CT	<input type="checkbox"/>	
RESPONSE_HEADER_FEATURE_POLICY	string	Feature Policy	<input type="checkbox"/>	
RESPONSE_HEADER_KEEP_ALIVE	string	Keep Alive	<input type="checkbox"/>	
RESPONSE_HEADER_PERMISSIONS_POLICY	string	Permissions Policy	<input type="checkbox"/>	
RESPONSE_HEADER_REFERRER_POLICY	string	Referrer Policy	<input type="checkbox"/>	
RESPONSE_HEADER_SERVER	string	Server	<input type="checkbox"/>	
RESPONSE_HEADER_STRICT_TRANSPORT_SECURITY	string	Strict Transport Security	<input type="checkbox"/>	
RESPONSE_HEADER_TRANSFER_ENCODING	string	Transfer Encoding	<input type="checkbox"/>	
RESPONSE_HEADER_VIA	string	Via	<input type="checkbox"/>	
RESPONSE_HEADER_X_ASPNET_MVC_VERSION	string	ASP.Net MVC Version (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_ASPNET_VERSION	string	ASP.Net Version (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_CACHE	string	Cache (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_CONTENT_TYPE_OPTIONS	string	Content Type Options (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_FRAME_OPTIONS	string	Frame Options (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_POWERED_BY	string	Powered by (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_ROBOTS_TAG	string	Robots Tag (extension)	<input type="checkbox"/>	
RESPONSE_HEADER_X_XSS_PROTECTION	string	XSS Protection (extension)	<input type="checkbox"/>	
RETRIEVAL_DURATION_MS	int64	Retrieval Duration (ms)	<input checked="" type="checkbox"/>	
RETRIEVAL_SUCCESSFUL	boolean	Retrieval is Successful	<input checked="" type="checkbox"/>	
RETURNED_URL	string	Returned URL	<input type="checkbox"/>	
SOURCE	string	Data Source	<input checked="" type="checkbox"/>	
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.
UID	guid	UID	<input checked="" type="checkbox"/>	
URL	string	URL	<input checked="" type="checkbox"/>	
USER_AGENT	string	HTTP User Agent	<input type="checkbox"/>	

**PERFORMANCEMEASUREMENTSLIVE: Data Dictionary Live Performance Measurements**

Live executed performance benchmarks on currently active data containers.

Catalog: DataDictionary

Schema: Invantive

Alias: pme

Label: Live Performance Measurements

This is a read-only table function. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Parameters of Table Function

The following parameters can be used to control the behaviour of the table function PERFORMANCEMEASUREMENTSLIVE. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
max_duration_sec	int32	<input checked="" type="checkbox"/>		
max_tests	int32	<input checked="" type="checkbox"/>		
sample_size	int32	<input checked="" type="checkbox"/>		

## Columns of Table Function

The columns of the table function PERFORMANCEMEASUREMENTSLIVE are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CATALOG	string	Catalog		Catalog where the tables are contained in.
DURATION_MS	int64	Duration		Duration in milliseconds of the I/O.
ERROR_MESSAGE	string	Error Message		Error message that occurred during executing the I/O.
EXECUTION_DATE_UTC	datetime	Execution Date		Date at which the I/O was executed (UTC).
ID	int32	ID		Unique ID of the property.



Name	Data Type	Label	Required	Documentation
PARTITIONS	string	Partitions		Partitions on which the I/O was executed.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
ROW_COUNT	int64	Rows		Number of rows exchanged.
SCHEMA	string	Schema		Schema within the catalog where the table is contained in.
SUCCESSFUL	boolean	Successful		Indicator whether the I/O completed successfully.
TABLE_NAME	string	Table Name		Name of the table.

### **RANGE: Data Dictionary Number Generator**

Generator for a range of numbers.

Catalog: DataDictionary

Schema: Invantive

Alias: rge

Label: Number Generator

This is a read-only table function. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## **Parameters of Table Function**

The following parameters can be used to control the behaviour of the table function RANGE. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``select * from table(value1, value2, value3)`` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``select * from table(name1 => value1, name3 => value3)`` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
count	int32	<input checked="" type="checkbox"/>		Number of values to generate.
first	int32	<input type="checkbox"/>	1	First value in the range to generate.
intervalMs	int32	<input type="checkbox"/>	0	Interval in milliseconds between individual rows.
postDelayMs	int32	<input type="checkbox"/>	0	Delay in milliseconds after the last row.
preDelayMs	int32	<input type="checkbox"/>	0	Delay in milliseconds before the first row.
randomBlobSize	int32	<input type="checkbox"/>	0	Size of the random blob in bytes.
stepSize	int32	<input type="checkbox"/>	1	Step size between two generated values.

## Columns of Table Function

The columns of the table function RANGE are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

### SESSIONIOS: Data Dictionary Session I/Os

Individual I/Os executed by Invantive's UniversalSQL engine on the data containers during the execution of SQL statements and their statistics.

Catalog: DataDictionary

Schema: Invantive

Alias: sio

Label: Session I/Os

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SESSIONIOS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ACTION	string	Action	<input checked="" type="checkbox"/>	Action, being either 'READ' or 'WRITE'.
BYTES_RECEIVED	int64	Bytes Received	<input checked="" type="checkbox"/>	Number of bytes received.

Name	Data Type	Label	Required	Documentation
BYTES_SENT	int64	Bytes Sent	<input checked="" type="checkbox"/>	Number of bytes sent.
CALL_SAFE_NAME	string	Call Safe Name	<input type="checkbox"/>	Call safe name of the object.
DATA_CONTAINER_ALIAS	string(240)	Data Container Alias	<input type="checkbox"/>	Alias of the data container.
DATA_CONTAINER_ID	string	Data Container ID	<input checked="" type="checkbox"/>	ID of the data container.
DURATION_CPU_MS	int64	CPU Duration	<input checked="" type="checkbox"/>	CPU duration in milliseconds of the I/O.
DURATION_IO_MS	int64	I/O Duration	<input checked="" type="checkbox"/>	I/O duration in milliseconds of the I/O.
DURATION_MS	int64	Duration	<input checked="" type="checkbox"/>	Duration in milliseconds of the I/O.
DURATION_SLEEP_MS	int64	Sleep Duration	<input checked="" type="checkbox"/>	Sleep duration in milliseconds of the I/O.
ERROR_MESSAGE_CODE	string	Error Message Code	<input type="checkbox"/>	Error message code that occurred during executing the I/O.
ERROR_MESSAGE	string	Error Message	<input type="checkbox"/>	Error message that occurred during executing the I/O.
EXECUTION_END_DATE_UTC	datetime	Execution End Date	<input checked="" type="checkbox"/>	Date at which the I/O was ended (UTC).
EXECUTION_ID	guid	Execution ID	<input type="checkbox"/>	ID of the SQL execution.
EXECUTION_START_DATE_UTC	datetime	Execution Start Date	<input checked="" type="checkbox"/>	Date at which the I/O was started (UTC).
EXECUTION_STEP_ID	int64	SQL Execution Step ID	<input type="checkbox"/>	ID of the SQL execution step.
FORWARDED_CUSTOMER_SERVICE	boolean	Forwarded to Customer Service	<input checked="" type="checkbox"/>	Indicator whether session I/O was forwarded.
FROM_APPLICATION_CACHE	boolean	From Application Cache	<input checked="" type="checkbox"/>	Indicator whether the data was retrieved from application-specific cache.
FROM_CACHE	boolean	From Cache	<input checked="" type="checkbox"/>	Indicator whether the data was retrieved from any cache.
FROM_DISK_CACHE	boolean	From Disk Cache	<input checked="" type="checkbox"/>	Indicator whether the data was retrieved from disk cache.
FROM_MEMORY_CACHE	boolean	From Memory Cache	<input checked="" type="checkbox"/>	Indicator whether the data was retrieved from memory cache.
ID	int64	ID	<input checked="" type="checkbox"/>	Unique ID of the property.
LICENSE_CONTRACT_CODE	string	License Contract Code	<input type="checkbox"/>	License contract code.
LICENSE_KEY_IDENTIFIER	string	License Key Identifier	<input type="checkbox"/>	License key identifier.
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
PARAMETER_LIST	string	Parameter List	<input type="checkbox"/>	Parameters.
PARTITION	string	Partition	<input type="checkbox"/>	Specific partition on which the I/O was executed.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string	Provider	<input checked="" type="checkbox"/>	Name of provider.
PUBLIC_QUERY_PARAMETERS	string	Public Query Parameters	<input type="checkbox"/>	Parameters added to the platform query.
RECURSION_LEVEL	int32	Recursion Level	<input checked="" type="checkbox"/>	Recursion level.
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.

Name	Data Type	Label	Required	Documentation
ROUND_TRIPS	int32	Round Trips	<input checked="" type="checkbox"/>	Number of round trips.
ROW_COUNT	int64	Row s	<input type="checkbox"/>	Number of row s exchanged.
STATEMENT_ID	guid	SQL Statement ID	<input type="checkbox"/>	ID of the SQL statement.
SUCCESSFUL	boolean	Succesful	<input checked="" type="checkbox"/>	Indicator w hether the I/O com- pleted successfully.
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.
UID	guid	UID	<input checked="" type="checkbox"/>	Unique ID of the property.
URL	string	URL	<input type="checkbox"/>	Address being accessed.

### SESSIONROWSCHANGED: Data Dictionary Rows Changed in Session

Audit of rows changed in a session.

Catalog: DataDictionary

Schema: Invantive

Alias: `srd`

Label: Rows Changed in Session

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

### View Columns

The columns of the view `SESSIONROWSCHANGED` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
COLUMN_1	string	Column 1		Name of the first column being updated.
DURATION_MS	int64	Duration		Duration in milliseconds of the change.
ERROR_MESSAGE	string	Error Message		Error message that occurred during executing the change.
EXECUTION_DATE_UTC	datetime	Creation Date		Date at w hich the change w as executed (UTC).
ID	int32	ID		Unique ID of the change.
NEW_VALUE_TEXT_1	string	New Value 1		New value of the first column.
OLD_VALUE_TEXT_1	string	Old Value 1		Old value of the first column.
PARTITION	string(30)	Partition		Specific partition on w hich the change w as executed.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.

Name	Data Type	Label	Required	Documentation
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SQL_REVERT	string	SQL Revert		SQL statement to revert all columns changed.
SUCCESSFUL	boolean	Successful		Indicator whether the change completed successfully.
TABLE_NAME	string(240)	Table Name		Name of the table or view.
TXN_ID	int64	Transaction ID		Transaction ID of the change.
UNIQUE_KEY_1	string	Unique Key 1		Value of the first column of the unique key.
UNIQUE_KEY_2	string	Unique Key 2		Value of the second column of the unique key.
UNIQUE_KEY_3	string	Unique Key 3		Value of the third column of the unique key.
UNIQUE_KEY_4	string	Unique Key 4		Value of the fourth column of the unique key.
UNIQUE_KEY_5	string	Unique Key 5		Value of the fifth column of the unique key.
UNIQUE_KEY_6	string	Unique Key 6		Value of the sixth column of the unique key.

### SYSTEMANONYMIZATIONMAPS: Data Dictionary Anonymization Maps

Used translation maps of values into anonymized values, consisting of pre-defined and custom maps.

Catalog: DataDictionary

Schema: Invantive

Alias: amp

Label: Anonymization Maps

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMANONYMIZATIONMAPS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CODE	string	Code		Code of the anonymization map.
DESCRIPTION	string	Description		Description of the anonymization map.
DURATION_MAX_TICKS	int64	Maximum Duration (ticks)	<input type="checkbox"/>	Maximum duration in ticks of the anonymization (10,000 ticks is 1 ms).
DURATION_MIN_TICKS	int64	Minimum Duration (ticks)	<input type="checkbox"/>	Minimum duration in ticks of the anonymization (10,000 ticks is 1

Name	Data Type	Label	Required	Documentation
				ms).
DURATION_TOTAL_TICKS	int64	Total Duration (ticks)	<input checked="" type="checkbox"/>	Total duration in ticks of the anonymization (10,000 ticks is 1 ms).
NUMBER_OF_ANONYMIZATIONS	int32	Number of Anonymizations	<input checked="" type="checkbox"/>	Number of anonymizations.
NUMBER_OF_MAPPINGS	int32	Number of Mappings	<input checked="" type="checkbox"/>	Number of mappings.
NUMBER_OF_RETRIES	int32	Number of Retries	<input checked="" type="checkbox"/>	Number of retries during generation of anonymous value since the generated value was already used.
TYPE	string	Data Type	<input checked="" type="checkbox"/>	Data type.

### SYSTEMANONYMIZATIONMAPVALUES: Data Dictionary Anonymization Map Values

Values and their translated value for translation maps used.

Catalog: DataDictionary

Schema: Invantive

Alias: ame

Label: Anonymization Map Values

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMANONYMIZATIONMAPVALUES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ANONYMIZED_VALUE	string	Anonymized Value	<input type="checkbox"/>	Anonymized value belonging 1:1 to original value in this map.
CODE	string	Code	<input checked="" type="checkbox"/>	Code of the anonymization map.
DESCRIPTION	string	Description	<input checked="" type="checkbox"/>	Description of the anonymization map.
DURATION_MAX_TICKS	int64	Maximum Duration (ticks)	<input type="checkbox"/>	Maximum duration in ticks of the anonymization (10,000 ticks is 1 ms).
DURATION_MIN_TICKS	int64	Minimum Duration (ticks)	<input type="checkbox"/>	Minimum duration in ticks of the anonymization (10,000 ticks is 1 ms).
DURATION_TOTAL_TICKS	int64	Total Duration (ticks)	<input checked="" type="checkbox"/>	Total duration in ticks of the anonymization (10,000 ticks is 1 ms).
NUMBER_OF_ANONYMIZATIONS	int32	Number of Anonymizations	<input checked="" type="checkbox"/>	Number of anonymizations.
NUMBER_OF_MAPPINGS	int32	Number of Mappings	<input checked="" type="checkbox"/>	Number of mappings.

Name	Data Type	Label	Required	Documentation
NUMBER_OF_RETRIES	int32	Number of Retries	<input checked="" type="checkbox"/>	Number of retries during generation of anonymous value since the generated value was already used.
ORIGINAL_VALUE	string	Original Value	<input type="checkbox"/>	Original value (represented as string).
TYPE	string	Data Type	<input checked="" type="checkbox"/>	Data type.

### SYSTEMANONYMIZATIONPREDEFINEDMAPS: Data Dictionary Anonymization Predefined Maps

Pre-defined translation maps of values into anonymized values.

Catalog: DataDictionary

Schema: Invantive

Alias: app

Label: Anonymization Predefined Maps

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMANONYMIZATIONPREDEFINEDMAPS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CODE	string	Code	<input checked="" type="checkbox"/>	Code of the anonymization map.
DESCRIPTION	string	Description	<input checked="" type="checkbox"/>	Description of the anonymization map.
TYPE	string	Data Type	<input checked="" type="checkbox"/>	Data type.

### SYSTEMCATALOGS: Data Dictionary Catalogs

Catalogs per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: ctg

Label: Catalogs

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMCATALOGS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
NAME	string	Catalog		Catalog where the tables are contained in.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.

### SYSTEMCOUNTRIES: Data Dictionary Countries

Countries.

Catalog: DataDictionary

Schema: Invantive

Alias: `cty`

Label: Countries

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

## View Columns

The columns of the view `SYSTEMCOUNTRIES` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CALLING_CODE	string(30)	Calling Code	<input type="checkbox"/>	Calling code.
DIALING_PLAN_PREFIX	string(30)	Dialing Plan Prefix	<input type="checkbox"/>	Dialing plan prefix.
IBAN_ACCOUNT_LENGTH	uint16	IBAN Account Length	<input type="checkbox"/>	Length of the IBAN-accounts.
IS_EU_MEMBER	boolean		<input checked="" type="checkbox"/>	Whether the country is a member state of the European Union.
IS_SEPA_MEMBER	boolean		<input checked="" type="checkbox"/>	Whether the country is a member state of the Single European Payment Area (SEPA).
ISO_CODE	string(2)	ISO Code	<input checked="" type="checkbox"/>	ISO code.
NAME	string(240)	Name	<input checked="" type="checkbox"/>	Name in English.
RESOURCE_CODE	string(60)	Resource Code	<input checked="" type="checkbox"/>	Code of the resource for the country name.
SINGLE_LANGUAGE_CODE	string(30)	Single-Language Code	<input type="checkbox"/>	ISO code of the language when there is only one official language.
TIMEZONE_OFFSETS	string(240)	Timezone Offsets	<input checked="" type="checkbox"/>	Timezone offsets used in the country.
TOP_LEVEL_DOMAIN	string(30)	Top-level Domain	<input type="checkbox"/>	Top-level domain.



**SYSTEMDATABASES: Data Dictionary Databases**

Database information.

Catalog: DataDictionary

Schema: Invantive

Alias: dbc

Label: Databases

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view SYSTEMDATABASES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ALLOWS_SQL_TRACE	boolean	Allow s SQL Trace	<input type="checkbox"/>	Whether the database allow s SQL trace.
AUTHENTICATION_MODE	string(30)	Authentication Mode	<input type="checkbox"/>	Mode to authenticate using.
COMMENT	string(1000)	Comment	<input type="checkbox"/>	Comment of the database.
CREATED_BY	string(240)	Created by	<input type="checkbox"/>	Whom created the database definition.
CREATED_ON	string(240)	Created on	<input type="checkbox"/>	On w hat device the database definition w as created.
CREATION_DATE_UTC	datetime	Creation Date (UTC)	<input type="checkbox"/>	Moment at w hich the database definition w as created.
DATABASE_NAME	string(240)	Database	<input checked="" type="checkbox"/>	Name of the database.
DESCRIPTION	string(1000)	Description	<input type="checkbox"/>	Description of the database.
DUMMY	string(1)	Dummy	<input checked="" type="checkbox"/>	Dummy column.
FORCE_NATIVE	boolean	Force Native	<input checked="" type="checkbox"/>	Whether to force a native con- nection instead of using In- vantive SQL.
FULL_NAME	string(240)	Full Name	<input checked="" type="checkbox"/>	Full name of the database.
GROUP_NAME	string(240)	Group Name	<input checked="" type="checkbox"/>	Name of the database group.
HAS_DATA_CACHE_CONNECTION_STRING	boolean	Has Data Cache Con- nection String	<input checked="" type="checkbox"/>	Whether the database uses Data Cache or Data Replicator.
HAS_DATA_DICTIONARY_CONNE CTION_STRING	boolean	Has Data Dictionary Connection String	<input checked="" type="checkbox"/>	Whether the database uses a connection string to store per- sistent elements of the Data Dic- tionary.
ID	guid	ID	<input checked="" type="checkbox"/>	Unique ID.
IS_DISTRIBUTED	boolean	Is Distributed	<input checked="" type="checkbox"/>	Whether the database is distrib- uted.
IS_STARRED	boolean	Is Starred	<input type="checkbox"/>	Whether the database definition is starred as a favorite.

Name	Data Type	Label	Required	Documentation
LAST_AUTHENTICATION_TIME_UTC	datetime	Last Authentication Time	<input checked="" type="checkbox"/>	Moment at which the authentication completed last.
MANUALLY_ADAPTED	boolean	Manually Adapted	<input checked="" type="checkbox"/>	Whether the database definition was manually adapted.
REGISTRATION_MOMENT_UTC	datetime	Registration Moment	<input type="checkbox"/>	Moment at which the database was registered in the working memory.
REMOTE_AUTHENTICATION_MODE	string(30)	Remote Authentication Mode	<input type="checkbox"/>	Remote mode to authenticate using.
REQUIRES_INVANTIVE_SQL	boolean	Requires Invantive UniversalSQL	<input checked="" type="checkbox"/>	Whether the database requires use of Invantive SQL.
SETTINGS_FILE_LAST_MODIFIED_UTC	datetime	Settings File Last Modified	<input type="checkbox"/>	Moment at which the settings file was last modified.
SETTINGS_FILE_NAME_PATH	string(240)	Settings File Name Path	<input type="checkbox"/>	Name and path of the settings.xml file.
SHORT_DESCRIPTION	string(240)	Short Description	<input type="checkbox"/>	Short description of the database.
SORTING_ORDER	int32	Sort Order	<input checked="" type="checkbox"/>	Sorting order of the database within the group.

### SYSTEMDATACONTAINERATTRIBUTES: Data Dictionary Data Container Attributes and Their Values

Attributes and their current values per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: dce

Label: Data Container Attributes and Their Values

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMDATACONTAINERATTRIBUTES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ALLOW_DISPLAY	boolean	Allow Display		Whether to allow displaying the value.
ALLOW_SET_FROM_CONNECTION_STRING	boolean	Allow Set from Connection String		Whether to allow setting the value from connection string.
ALLOW_SET_FROM_LOG_ON	boolean	Allow Set from Log On		Whether to allow setting the value from log on window.
ALLOW_SET_FROM_PROVIDER_FILE	boolean	Allow Set from Provider File		Whether to allow setting the value from provider file.
ALLOW_SET_FROM_SET_STATEMENT	boolean	Allow Set from Set Statement		Whether to allow setting the value from set SQL statement.

Name	Data Type	Label	Required	Documentation
CODE	string(240)	Code	<input checked="" type="checkbox"/>	Code of the attribute.
DEFAULT_VALUE	string(4000)	Default Value	<input type="checkbox"/>	Default value of the property.
DESCRIPTION	string(4000)	Description	<input checked="" type="checkbox"/>	Description of the attribute.
HAS_GETTER	boolean	Has Getter		Whether the attribute has a get method.
HAS_SETTER	boolean	Has Setter		Whether the attribute has a set method.
ORIGIN	string(4000)	Origin	<input checked="" type="checkbox"/>	Origin of the current value of the property.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
VALUE	string(4000)	Value	<input type="checkbox"/>	Current value of the property.

### SYSTEMDATACONTAINERHTTPCACHECONTENTS: Data Dictionary System Data Container HTTP Cache Contents

Cached results of HTTP calls executed by providers.

Catalog: DataDictionary

Schema: Invantive

Alias: dct

Label: System Data Container HTTP Cache Contents

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDATACONTAINERHTTPCACHECONTENTS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CACHE_FIRST_HIT_UTC	datetime	Cache First Hit		Date at which the cache entry was first hit (UTC).
CACHE_HITS_PER_HOUR	int32	Cache Hits per Hour		Number of times per hour the cache entry is used since creation.
CACHE_HITS	int32	Cache Hits		Number of times the cache entry was used after initial storage.
CACHE_KEY	string(4000)	Cache Key	<input checked="" type="checkbox"/>	Unique key.

Name	Data Type	Label	Required	Documentation
CACHE_LAST_HIT_UTC	datetime	Cache Last Hit		Date at which the cache entry was last hit (UTC).
CREATED_UTC	datetime	Created		Date at which the cache entry was created (UTC).
HTTP_METHOD	string(30)	HTTP Method	<input checked="" type="checkbox"/>	HTTP method.
HTTP_REQUEST_BODY_GZIPPED_LENGTH	int64	HTTP Request Body Gzipped Length (Bytes)		Number of bytes in the gzipped text request body.
HTTP_REQUEST_BODY_GZIPPED	byte[]	HTTP Request Body (Gzipped)	<input type="checkbox"/>	HTTP request body as gzipped contents.
HTTP_REQUEST_BODY_LENGTH	int64	HTTP Request Body Length		Number of characters in the text request body.
HTTP_REQUEST_BODY	string(1000000)	HTTP Request Body	<input type="checkbox"/>	HTTP request body.
HTTP_RESPONSE_BODY_BINARY	byte[]	HTTP Response Body (Binary)	<input type="checkbox"/>	HTTP response body as binary contents.
HTTP_RESPONSE_BODY_BYTES_GZIPPED_LENGTH	int64	HTTP Response Body Gzipped Length (Bytes)		Number of bytes in the gzipped binary response body.
HTTP_RESPONSE_BODY_BYTES_LENGTH	int64	HTTP Response Body Length (Bytes)		Number of bytes in the binary response body bytes.
HTTP_RESPONSE_BODY_GZIPPED_LENGTH	int64	HTTP Response Body Gzipped Length (Bytes)		Number of bytes in the gzipped text response body.
HTTP_RESPONSE_BODY_GZIPPED	byte[]	HTTP Response Body (Gzipped)	<input checked="" type="checkbox"/>	HTTP response body as gzipped contents.
HTTP_RESPONSE_BODY_LENGTH	int64	HTTP Response Body Length		Number of characters in the text response body.
HTTP_RESPONSE_BODY	string(1000000)	HTTP Response Body	<input checked="" type="checkbox"/>	HTTP response body.
HTTP_RESPONSE_HEADERS	string(16000)	HTTP Response Headers	<input type="checkbox"/>	HTTP response headers.
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
REQUEST_URL	string(4000)	Request URL	<input checked="" type="checkbox"/>	Request URL used to retrieve the answer.
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.

**SYSTEMDATACONTAINERMESSAGES: Data Dictionary Data Container Messages**

Messages per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: dme

Label: Data Container Messages

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDATACONTAINERMESSAGES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CHANNEL_NAME	string	Channel Name		Name of the channel within the source.
PAYLOAD	string	Payload		Message text.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
REGISTRATION_DATE_UTC	datetime	Registration Date		Date at which the message was registered (UTC).
SOURCE_NAME	string	Source Name		Name of the source.
TYPE	string(30)	Type		Message type.

**SYSTEMDATACONTAINERPROPERTIES: Data Dictionary Data Container Properties**

Properties and their values for active data containers.

Catalog: DataDictionary

Schema: Invantive

Alias: dcy

Label: Data Container Properties

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDATACONTAINERPROPERTIES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DATA_CONTAINER_ALIAS	string(240)	Data Container Alias	<input type="checkbox"/>	Alias of the data container.
DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
IS_DEFAULT_FLAG	boolean	Is Default?	<input checked="" type="checkbox"/>	Is the default provider?
NAME	string(240)	Name	<input checked="" type="checkbox"/>	Name of the property.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input type="checkbox"/>	Name of the provider.
VALUE	string(64000)	Value	<input type="checkbox"/>	Current value of the property.

### SYSTEMDATACONTAINERRESERVEDWORDS: Data Dictionary Provider Reserved Words

Reserved words per open data container.

Catalog: DataDictionary

Schema: Invantive

Alias: pae

Label: Provider Reserved Words

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDATACONTAINERRESERVEDWORDS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
RESERVED_WORD	string(240)	Reserved Word	<input checked="" type="checkbox"/>	Reserved word.

### SYSTEMDATACONTAINERS: Data Dictionary Data Container

Active data containers.

Catalog: DataDictionary

Schema: Invantive

Alias: dcr

Label: Data Container

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDATACONTAINERS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ALIAS	string(240)	Alias	<input type="checkbox"/>	Alias of the data container.
ID	string(4000)	ID	<input type="checkbox"/>	Data container ID.
IS_DEFAULT_FLAG	boolean	Is Default?	<input checked="" type="checkbox"/>	Is the default provider?
IS_SERVICE_PROVIDER_FLAG	boolean	Is Service Provider?	<input checked="" type="checkbox"/>	Is the provider a service provider?
PARTITIONS_COUNT	int32	Number of Partitions	<input type="checkbox"/>	Number of partitions.
PARTITIONS_SELECTED_COUNT	int32	Number of Selected Partitions	<input type="checkbox"/>	Number of selected partitions.
PROVIDER_DATABASE_POOL_DESCRIPTION	string(240)	Provider Database Pool Description	<input type="checkbox"/>	Pool description of the database.
PROVIDER_DATABASE_PRICING_TIER	string(240)	Provider Database Pricing Tier	<input type="checkbox"/>	Pricing tier of the database.
PROVIDER_DATABASE_SERVICE_TIER	string(240)	Provider Database Service Tier	<input type="checkbox"/>	Service tier of the database.
PROVIDER_DATABASE_VERSION_NUMBER	string(240)	Provider Database Version Number	<input type="checkbox"/>	Version number of the database.
PROVIDER_DATABASE_VERSION	string(240)	Provider Database Version	<input type="checkbox"/>	Version text of the database.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input type="checkbox"/>	Description of the provider.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Short name of the provider.
SESSION_TIME_UTC_OFFSET_SECONDS	int32	UTC Session Time Offset (sec)	<input checked="" type="checkbox"/>	UTC session offset (seconds).
UI_LANGUAGE_CODE	string(30)	UI Language Code	<input type="checkbox"/>	User interface language code.
USER_COMPANY_ADDRESS_LINE_1	string(240)		<input type="checkbox"/>	Address line 1 of the company of the user.
USER_COMPANY_ADDRESS_LINE_2	string(240)		<input type="checkbox"/>	Address line 2 of the company of the user.
USER_COMPANY_BIC	string(4000)	Company BIC	<input type="checkbox"/>	BIC of the company of the user.
USER_COMPANY_CITY	string(240)	User Company City	<input type="checkbox"/>	City of the company of the user.
USER_COMPANY_COC_NUMBER	string(240)	User Company CoC Number	<input type="checkbox"/>	CoC number of the company of the user.
USER_COMPANY_DATE_ESTABLISHED	datetime		<input type="checkbox"/>	Date established of the company of the user.

Name	Data Type	Label	Required	Documentation
USER_COMPANY_EMAIL_ADDRESSES	string(240)	User Company Email Address	<input type="checkbox"/>	Email address of the company of the user.
USER_COMPANY_EMPLOYEES	int32		<input type="checkbox"/>	Number of employees of the company of the user.
USER_COMPANY_IBAN	string(4000)	Company IBAN	<input type="checkbox"/>	IBAN of the company of the user.
USER_COMPANY_ID	string(4000)	User Company ID	<input type="checkbox"/>	Unique ID of the company of the user.
USER_COMPANY_LEGAL_STRUCTURE	string(240)		<input type="checkbox"/>	Legal structure of the company of the user.
USER_COMPANY_NAME	string(4000)	User Company Name	<input type="checkbox"/>	Name of the company of the user.
USER_COMPANY_PAYPAL_IDENTIFIER	string(240)		<input type="checkbox"/>	PayPal identifier of the company of the user.
USER_COMPANY_PHONE	string(4000)	User Company Phone	<input type="checkbox"/>	Phone of the company of the user.
USER_COMPANY_RSIN_NUMBER	string(240)	User Company RSIN Number	<input type="checkbox"/>	RSIN number of the company of the user.
USER_COMPANY_SIRET_NUMBER	string(240)	User Company SIRET Number	<input type="checkbox"/>	SIRET number of the company of the user.
USER_COMPANY_TRADENAMES	string(240)		<input type="checkbox"/>	Tradenames of the company of the user.
USER_COMPANY_VAT_NUMBER	string(240)	User Company VAT Number	<input type="checkbox"/>	VAT number of the company of the user.
USER_COMPANY_WEB_SITE	string(4000)	User Company Website	<input type="checkbox"/>	Web site of the company of the user.
USER_EMAIL_ADDRESS	string(240)	User Email Address	<input type="checkbox"/>	User email address.
USER_FIRST_NAME	string(240)	User First Name	<input type="checkbox"/>	User first name.
USER_GENDER	string(30)	User Gender	<input type="checkbox"/>	User gender.
USER_ID	string(240)	User ID	<input type="checkbox"/>	User ID.
USER_LANGUAGE_CODE	string(240)	User Language Code	<input type="checkbox"/>	User language code.
USER_LANGUAGE	string(240)	User Language	<input type="checkbox"/>	User language.
USER_LAST_LOGON	datetime	User Last Logon	<input type="checkbox"/>	User last logon.
USER_LAST_NAME	string(240)	User Last Name	<input type="checkbox"/>	User last name.
USER_LINKED_IN_ACCOUNT	string(240)	User LinkedIn Account	<input type="checkbox"/>	User LinkedIn account URL.
USER_LOG_ON_CODE	string(240)	User Log On Code	<input type="checkbox"/>	User log on code.
USER_MIDDLE_NAME	string(240)	User Middle Name	<input type="checkbox"/>	User middle name.
USER_MOBILE_NUMBER	string(240)	User Mobile Number	<input type="checkbox"/>	User mobile number.
USER_NAME_AND_COMPANY	string(240)	User Name and Company	<input type="checkbox"/>	User name and company name.
USER_NAME	string(240)	User Name	<input type="checkbox"/>	User name.
USER_NATIONALITY	string(240)	User Nationality	<input type="checkbox"/>	User nationality.
USER_PHONE_NUMBER	string(240)	User Phone Number	<input type="checkbox"/>	User phone number.
USER_PICTURE_BLOB	byte[]	User Picture (BLOB)	<input type="checkbox"/>	User picture as BLOB.
USER_PICTURE_MIME_TYPE	string(240)	User Picture MIME Type	<input type="checkbox"/>	User picture MIME type.



Name	Data Type	Label	Required	Documentation
USER_PICTURE_URL	string(4000)	User Picture (URL)	<input type="checkbox"/>	User picture URL.
USER_SKYPE_ACCOUNT	string(240)	User Skype Account	<input type="checkbox"/>	User Skype account.
USER_TITLE	string(240)	User Title	<input type="checkbox"/>	User titlet.
USER_TWITTER_ACCOUNT	string(240)	User Tw itter Account	<input type="checkbox"/>	User Tw itter account.
USER_WEBSITE_URL	string(240)	User Website	<input type="checkbox"/>	User w ebsite URL.

### SYSTEMDATACONTAINERSLOTBASEDRATELIMITERS: Data Dictionary Provider Slot-based Rate Limiters

Slot-based rate limiters per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: dsr

Label: Provider Slot-based Rate Limiters

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDATACONTAINERSLOTBASEDRATELIMITERS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DURATION_PERIOD_MS	int64	Duration Period (ms)	<input checked="" type="checkbox"/>	Duration of period in ms after w hich the slot use recycles.
LABEL	string(240)	Label	<input type="checkbox"/>	Label of the rate limiter.
LAST_CONTEXT	string	Last Context	<input type="checkbox"/>	Last context.
LAST_HIT_SLOT0_UTC	datetime	Last Hit of Slot 0	<input type="checkbox"/>	Time of last registration on first slot (UTC).
LAST_SLEEP_CONTEXT	string	Last Sleep Context	<input type="checkbox"/>	Context of last sleep.
LAST_SLEEP_DURATION_MS	int64	Last Sleep Duration (ms)	<input type="checkbox"/>	Last sleep duration in ms.
LAST_SLEEP_START_UTC	datetime	Last Sleep Start	<input type="checkbox"/>	Start time of last sleep (UTC).
NUMBER_OF_FIRST_FREE_SLOT	int64	Number of Slots in Period	<input checked="" type="checkbox"/>	Number of slots per period.
NUMBER_OF_SLOTS_IN_PERIOD	int64	Number of Slots in Period	<input type="checkbox"/>	Number of slots per period.
PREVIOUS_HIT_SLOT0_UTC	datetime	Previous Hit of Slot 0	<input type="checkbox"/>	Time of previous registration on first slot (UTC).
PREVIOUS_SLEEP_CONTEXT	string	Previous Sleep Con- text	<input type="checkbox"/>	Context of previous sleep.
PREVIOUS_SLEEP_DURATION_MS	int64	Previous Sleep Dura- tion (ms)	<input type="checkbox"/>	Previous sleep duration in ms.
PREVIOUS_SLEEP_START_UTC	datetime	Previous Sleep Start	<input type="checkbox"/>	Start time of previous sleep (UTC).

Name	Data Type	Label	Required	Documentation
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Short name.
SLOT_HIT_COUNT	int64	Number of Hits	<input checked="" type="checkbox"/>	Number of slot hits registered.
TOTAL_SLEEP_COUNT	int32	Number of Sleeps	<input checked="" type="checkbox"/>	Number of sleeps.
TOTAL_SLEEP_DURATION_MS	int64	Sleep Duration (ms)	<input checked="" type="checkbox"/>	Total sleep duration in ms.

### SYSTEMDATACONTAINERSLOTBASEDRATELIMITERSLOTS: Data Dictionary Provider Slot-based Rate Limiter Slots

Slot-specific details of slot-based rate limiters per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: dst

Label: Provider Slot-based Rate Limiter Slots

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMDATACONTAINERSLOTBASEDRATELIMITERSLOTS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DURATION_PERIOD_MS	int64	Duration Period (ms)	<input checked="" type="checkbox"/>	Duration of period in ms after which the slot use recycles.
LABEL	string(240)	Label	<input type="checkbox"/>	Label of the rate limiter.
LAST_CONTEXT	string	Last Context	<input type="checkbox"/>	Last context.
LAST_SLOT_REGISTRATION_UTC	datetime	Last Slot Registration	<input type="checkbox"/>	Last registration on slot (UTC).
NUMBER_OF_FIRST_FREE_SLOT	int64	Number of Slots in Period	<input checked="" type="checkbox"/>	Number of slots per period.
NUMBER_OF_SLOTS_IN_PERIOD	int64	Number of Slots in Period	<input type="checkbox"/>	Number of slots per period.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.

Name	Data Type	Label	Required	Documentation
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Short name.
SLOT_NUMBER	int64	Slot Number	<input checked="" type="checkbox"/>	Number of slot.

### SYSTEMDOMAINCODES: Data Dictionary Code/value Domains

Domain maps of code/values.

Catalog: DataDictionary

Schema: Invantive

Alias: dmn

Label: Code/value Domains

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMDOMAINCODES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CATALOG_NAME	string	Catalog Name		Catalog where the tables are contained in.
CODE	string	Code		Code of the domain.
ID	int32	ID		Unique ID of the code domain.
PROVIDER_DATA_CONTAINER_ALIASES	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SCHEMA_NAME	string	Schema		Schema within the catalog where the table is contained in.
TABLE_DESCRIPTION	string	Table Description		Description of the contents.
TABLE_EXAMPLE	string	Table Example		Example of the contents.
TABLE_LABEL_PLURAL	string	Table Label Plural		Label of the table contents in plural form.
TABLE_NAME	string	Table Name		Name of the table or view.

**SYSTEMDOMAINCODEVALUES: Data Dictionary Domain Values**

Domain codes and their values.

Catalog: DataDictionary

Schema: Invantive

Alias: dve

Label: Domain Values

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view SYSTEMDOMAINCODEVALUES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CODE	string	Code		Code value.
DESCRIPTION	string	Description		Description of value.
DOMAIN_CODE	string	Domain Code		Code of the domain.
ID	int32	ID		Unique ID of the code domain.
PROVIDER_DATA_CONTAINER_ALIASES	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
RESOURCE_CODE	string(240)	Resource Code	<input type="checkbox"/>	Resource code for internationalization.

**SYSTEMFILTERTOTABLEFUNCTIONPARAMETERS**

Mapping from filters to table function parameters.

Catalog: DataDictionary

Schema: Invantive

Alias: ftr

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view SYSTEMFILTERTOTABLEFUNCTIONPARAMETERS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ADDITIONAL_INFORMATION	string	Additional Information		Additional information from specific types of translation functions.
DOCUMENTATION	string	Documentation		Documentation.
FROM_PARAMETER_NAME	string	From Parameter Name		From parameter name.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SOURCE_COLUMN_NAME	string	Source Column Name		Source column name.
TO_PARAMETER_NAME	string	To Parameter Name		To parameter name.

### SYSTEMFUNCTIONS: Data Dictionary System Functions

Invariantive SQL functions and whether they are licensed for use.

Catalog: DataDictionary

Schema: Invariantive

Alias: ftn

Label: System Functions

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMFUNCTIONS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
FUNCTION_CODE	string(240)	Function Code	<input checked="" type="checkbox"/>	Code of function.
IS_LICENSED_FOR_EDIT	boolean	Licensed for Edit	<input checked="" type="checkbox"/>	Indicator whether the function is licensed for edits.
IS_LICENSED	boolean	Licensed	<input checked="" type="checkbox"/>	Indicator whether the function is licensed.

### SYSTEMLANGUAGES: Data Dictionary Languages

Languages.

Catalog: DataDictionary

Schema: Invariantive

Alias: `lge`

Label: Languages

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

## View Columns

The columns of the view `SYSTEMLANGUAGES` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
<code>IS_DISPLAY_LANGUAGE</code>	boolean	Is Display Language	<input checked="" type="checkbox"/>	Whether the user interface is available in this language.
<code>ISO_CODE</code>	string(2)	ISO Code	<input checked="" type="checkbox"/>	ISO 639-1 code.
<code>NAME_I18N</code>	string(60)	Name	<input checked="" type="checkbox"/>	Translated name of the language.
<code>RESOURCE_CODE</code>	string(60)	Resource Code	<input checked="" type="checkbox"/>	Code of the resource for the language.

### SYSTEMLICENSES: Data Dictionary Licenses

Properties and their values of the currently active license contract key.

Catalog: `DataDictionary`

Schema: `Invantive`

Alias: `lce`

Label: Licenses

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

## View Columns

The columns of the view `SYSTEMLICENSES` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
<code>ALIAS</code>	string(240)	Alias	<input type="checkbox"/>	Alias of the provider.
<code>NAME</code>	string(240)	Name	<input checked="" type="checkbox"/>	Name of the license property.
<code>PROVIDER_INSTANCE_UID</code>	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider instance.
<code>PROVIDER_NAME</code>	string(240)	Provider Name	<input type="checkbox"/>	Name of the provider.
<code>VALUE</code>	string(131072)	Value	<input type="checkbox"/>	Current value of the license property.

**SYSTEMLOCKS: Data Dictionary Locks**

Locks.

Catalog: DataDictionary

Schema: Invantive

Alias: lck

Label: Locks

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view SYSTEMLOCKS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ACQUISITION_COUNT	int64	Acquisition Count	<input checked="" type="checkbox"/>	Number of acquisitions.
AVERAGE_ACTIVE	decimal	Average Active	<input checked="" type="checkbox"/>	Average number of active slots.
BILLING_ID	string	Billing ID	<input type="checkbox"/>	ID for billing.
CALLING_PROVIDER_ALIAS	string(240)		<input type="checkbox"/>	Calling provider alias.
CATEGORY_CODE	string	Category Code	<input type="checkbox"/>	Category.
CONTEXT	string	Context	<input type="checkbox"/>	Context.
CURRENT_FREE	int32	Current Free	<input checked="" type="checkbox"/>	Current capacity free.
CURRENT_USED	int32	Current Used	<input checked="" type="checkbox"/>	Current capacity used.
CURRENT_WAITING_COUNT	int32		<input checked="" type="checkbox"/>	Current number of waiters.
DATE_FIRST_ACQUISITION	datetime		<input type="checkbox"/>	Time of first acquisition.
DATE_FIRST_RELEASE	datetime		<input type="checkbox"/>	Time of first release.
DATE_FIRST_TIMEOUT	datetime		<input type="checkbox"/>	Time of first time-out.
DATE_LAST_ACQUISITION	datetime		<input type="checkbox"/>	Time of last acquisition.
DATE_LAST_FULL_RELEASE	datetime		<input type="checkbox"/>	Time of last full release.
DATE_LAST_OPERATION	datetime		<input checked="" type="checkbox"/>	Time of last operation.
DATE_LAST_RELEASE	datetime		<input type="checkbox"/>	Time of last release.
DATE_LAST_TIMEOUT	datetime		<input type="checkbox"/>	Time of last time-out.
DATE_REGISTERED	datetime	Registered	<input checked="" type="checkbox"/>	Time of registration.
GUI_ACTION	string(240)	GUI Action	<input type="checkbox"/>	Action performed w ithin the user interface.
GUI_IP_ADDRESS_EXTERNAL	string(240)	GUI External IP Address	<input type="checkbox"/>	External IP address of the GUI application.
GUI_MACHINE	string(240)	GUI Machine	<input type="checkbox"/>	Name of the machine running the GUI application.
GUI_MODULE_NAME	string(240)	GUI Module Name	<input type="checkbox"/>	Module w ithin the GUI application currently running.
GUI_MODULE_VERSION	string(240)	GUI Module Version	<input type="checkbox"/>	Version of module w ithin the GUI application currently running.
GUI_OS_USER	string(240)	GUI OS User	<input type="checkbox"/>	OS user.

Name	Data Type	Label	Required	Documentation
GUI_USER	string(240)	User	<input type="checkbox"/>	Application user.
INITIAL_CAPACITY	int32	Initial Capacity	<input checked="" type="checkbox"/>	Initial capacity.
LAST_WAIT_TIMEOUT_MS	int64		<input type="checkbox"/>	Time-out in milliseconds of last started and active wait.
MAXIMUM_CAPACITY	int32	Maximum Capacity	<input checked="" type="checkbox"/>	Maximum capacity.
POOL_IDENTITY	string(60)	Pool Identity	<input type="checkbox"/>	Pool identity.
PROCESS_ID	uint32	Process ID	<input type="checkbox"/>	Process ID.
RELEASE_COUNT	int64	Release Count	<input checked="" type="checkbox"/>	Number of releases.
REQUEST_ID	string(240)	Request ID	<input type="checkbox"/>	Request ID.
SESSION_ID	string(240)	Session ID	<input type="checkbox"/>	ID of the session.
STDDEV_ACTIVE	decimal	Standard Deviation Active	<input checked="" type="checkbox"/>	Standard deviation number of active slots.
TIMEOUT_COUNT	int64	Timeout Count	<input checked="" type="checkbox"/>	Number of timeouts.
TYPE	string(30)	Type	<input type="checkbox"/>	Type of lock. One of: SEMAPHORE or RWLOCK.
UID	guid	UID	<input checked="" type="checkbox"/>	Unique ID.
WAIT_AVERAGE_DURATION_MS	decimal		<input checked="" type="checkbox"/>	Average duration of wait (ms).
WAIT_STDDEV_DURATION_MS	decimal		<input checked="" type="checkbox"/>	Standard deviation duration of wait (ms).
WAITS_COMPLETED	int64	Waits Completed	<input checked="" type="checkbox"/>	Number of waits completed.

### SYSTEMMANAGEDFILEACTIONS: Data Dictionary Managed File Actions

Managed file actions.

Catalog: DataDictionary

Schema: Invantive

Alias: mfn

Label: Managed File Actions

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMMANAGEDFILEACTIONS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ACTION	string(30)	Action	<input checked="" type="checkbox"/>	Action.
BILLING_ID	string	Billing ID	<input type="checkbox"/>	ID for billing.
CALL_SAFE_NAME_OVERRULE	string		<input type="checkbox"/>	Overruled name of the table.
CALLING_PROVIDER_ALIAS	string(240)		<input type="checkbox"/>	Calling provider alias.
CATALOG_NAME	string	Catalog Name	<input type="checkbox"/>	Name of the catalog.



Name	Data Type	Label	Required	Documentation
DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
DATE_DO_NOT_REMOVE_BEFORE	datetime		<input type="checkbox"/>	Time before w hich not to re-move.
DATE_REGISTERED	datetime	Registered	<input checked="" type="checkbox"/>	Time of registration.
EXCEPTION_CODE	string	Exception Code	<input type="checkbox"/>	Exception code.
EXCEPTION_TEXT	string	Text	<input type="checkbox"/>	Exception text.
FILE_NAME	string(4000)	File Name	<input checked="" type="checkbox"/>	File name and path.
GUI_ACTION	string(240)	GUI Action	<input type="checkbox"/>	Action performed w ithin the user interface.
GUI_IP_ADDRESS_EXTERNAL	string(240)	GUI External IP Ad-dress	<input type="checkbox"/>	External IP address of the GUI application.
GUI_MACHINE	string(240)	GUI Machine	<input type="checkbox"/>	Name of the machine running the GUI application.
GUI_MODULE_NAME	string(240)	GUI Module Name	<input type="checkbox"/>	Module w ithin the GUI application currently running.
GUI_MODULE_VERSION	string(240)	GUI Module Version	<input type="checkbox"/>	Version of module w ithin the GUI application currently running.
GUI_OS_USER	string(240)	GUI OS User	<input type="checkbox"/>	OS user.
GUI_USER	string(240)	User	<input type="checkbox"/>	Application user.
LIFE_CYCLE_TYPE	string(30)		<input checked="" type="checkbox"/>	Life cycle type.
MESSAGE_CODE	string(30)	Type	<input checked="" type="checkbox"/>	Type.
PARTITION	string	Partition	<input type="checkbox"/>	Specific partition on w hich the I/O w as executed.
POOL_IDENTITY	string(60)	Pool Identity	<input type="checkbox"/>	Pool identity.
PROCESS_ID	uint32	Process ID	<input type="checkbox"/>	Process ID.
REQUEST_ID	string(240)	Request ID	<input type="checkbox"/>	Request ID.
SCHEMA_NAME	string	Schema	<input type="checkbox"/>	Name of the schema.
SESSION_ID	string(240)	Session ID	<input type="checkbox"/>	ID of the session.
SIZE_BYTES	int64	Bytes	<input type="checkbox"/>	Size in bytes.
SIZE_CHARACTERS	int64	Characters	<input type="checkbox"/>	Size in characters.
TABLE_NAME	string	Table Name	<input type="checkbox"/>	Name of the table.
TYPE	string(30)	Type	<input checked="" type="checkbox"/>	Type.
UID	guid	UID	<input checked="" type="checkbox"/>	Unique ID.

### SYSTEMMANAGEDFILES: Data Dictionary Managed Files

Managed files.

Catalog: DataDictionary

Schema: Invantive

Alias: mfe

Label: Managed Files

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMMANAGEDFILES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CREATE_ACTION	string(30)	Action	<input checked="" type="checkbox"/>	Action.
CREATE_BILLING_ID	string	Billing ID	<input type="checkbox"/>	ID for billing.
CREATE_CALL_SAFE_NAME_OVERRIDE	string		<input type="checkbox"/>	Overruled name of the table.
CREATE_CALLING_PROVIDER_ALIAS	string(240)		<input type="checkbox"/>	Calling provider alias.
CREATE_CATALOG_NAME	string	Catalog Name	<input type="checkbox"/>	Name of the catalog.
CREATE_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
CREATE_DATE_DO_NOT_REMOVE_BEFORE	datetime		<input type="checkbox"/>	Time before which not to remove.
CREATE_DATE_REGISTERED	datetime	Registered	<input checked="" type="checkbox"/>	Time of registration.
CREATE_EXCEPTION_CODE	string	Exception Code	<input type="checkbox"/>	Exception code.
CREATE_EXCEPTION_TEXT	string	Text	<input type="checkbox"/>	Exception text.
CREATE_GUI_ACTION	string(240)	GUI Action	<input type="checkbox"/>	Action performed within the user interface.
CREATE_GUI_IP_ADDRESS_EXTERNAL	string(240)	GUI External IP Address	<input type="checkbox"/>	External IP address of the GUI application.
CREATE_GUI_MACHINE	string(240)	GUI Machine	<input type="checkbox"/>	Name of the machine running the GUI application.
CREATE_GUI_MODULE_NAME	string(240)	GUI Module Name	<input type="checkbox"/>	Module within the GUI application currently running.
CREATE_GUI_MODULE_VERSION	string(240)	GUI Module Version	<input type="checkbox"/>	Version of module within the GUI application currently running.
CREATE_GUI_OS_USER	string(240)	GUI OS User	<input type="checkbox"/>	OS user.
CREATE_GUI_USER	string(240)	User	<input type="checkbox"/>	Application user.
CREATE_LIFE_CYCLE_TYPE	string(30)		<input checked="" type="checkbox"/>	Life cycle type.
CREATE_MESSAGE_CODE	string(30)	Type	<input checked="" type="checkbox"/>	Type.
CREATE_PARTITION	string	Partition	<input type="checkbox"/>	Specific partition on which the I/O was executed.
CREATE_POOL_IDENTITY	string(60)	Pool Identity	<input type="checkbox"/>	Pool identity.
CREATE_PROCESS_ID	uint32	Process ID	<input type="checkbox"/>	Process ID.
CREATE_REQUEST_ID	string(240)	Request ID	<input type="checkbox"/>	Request ID.
CREATE_SCHEMA_NAME	string	Schema	<input type="checkbox"/>	Name of the schema.
CREATE_SESSION_ID	string(240)	Session ID	<input type="checkbox"/>	ID of the session.
CREATE_SIZE_BYTES	int64	Bytes	<input type="checkbox"/>	Size in bytes.
CREATE_SIZE_CHARACTERS	int64	Characters	<input type="checkbox"/>	Size in characters.
CREATE_TABLE_NAME	string	Table Name	<input type="checkbox"/>	Name of the table.

Name	Data Type	Label	Required	Documentation
CREATE_TYPE	string(30)	Type	<input checked="" type="checkbox"/>	Type.
EXISTS_FLAG	boolean	Exists Flag	<input type="checkbox"/>	Whether the file exists.
FILE_NAME	string(4000)	File Name	<input checked="" type="checkbox"/>	File name and path.
MODIFIED_ACTION	string(30)	Action	<input checked="" type="checkbox"/>	Action.
MODIFIED_BILLING_ID	string	Billing ID	<input type="checkbox"/>	ID for billing.
MODIFIED_CALL_SAFE_NAME_OVERRIDE	string		<input type="checkbox"/>	Overruled name of the table.
MODIFIED_CALLING_PROVIDER_ALIAS	string(240)		<input type="checkbox"/>	Calling provider alias.
MODIFIED_CATALOG_NAME	string	Catalog Name	<input type="checkbox"/>	Name of the catalog.
MODIFIED_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
MODIFIED_DATE_DO_NOT_REMOVE_BEFORE	datetime		<input type="checkbox"/>	Time before w hich not to remove.
MODIFIED_DATE_REGISTERED	datetime	Registered	<input checked="" type="checkbox"/>	Time of registration.
MODIFIED_EXCEPTION_CODE	string	Exception Code	<input type="checkbox"/>	Exception code.
MODIFIED_EXCEPTION_TEXT	string	Text	<input type="checkbox"/>	Exception text.
MODIFIED_GUI_ACTION	string(240)	GUI Action	<input type="checkbox"/>	Action performed w ithin the user interface.
MODIFIED_GUI_IP_ADDRESS_EXTERNAL	string(240)	GUI External IP Address	<input type="checkbox"/>	External IP address of the GUI application.
MODIFIED_GUI_MACHINE	string(240)	GUI Machine	<input type="checkbox"/>	Name of the machine running the GUI application.
MODIFIED_GUI_MODULE_NAME	string(240)	GUI Module Name	<input type="checkbox"/>	Module w ithin the GUI application currently running.
MODIFIED_GUI_MODULE_VERSION	string(240)	GUI Module Version	<input type="checkbox"/>	Version of module w ithin the GUI application currently running.
MODIFIED_GUI_OS_USER	string(240)	GUI OS User	<input type="checkbox"/>	OS user.
MODIFIED_GUI_USER	string(240)	User	<input type="checkbox"/>	Application user.
MODIFIED_LIFE_CYCLE_TYPE	string(30)		<input checked="" type="checkbox"/>	Life cycle type.
MODIFIED_MESSAGE_CODE	string(30)	Type	<input checked="" type="checkbox"/>	Type.
MODIFIED_PARTITION	string	Partition	<input type="checkbox"/>	Specific partition on w hich the I/O w as executed.
MODIFIED_POOL_IDENTITY	string(60)	Pool Identity	<input type="checkbox"/>	Pool identity.
MODIFIED_PROCESS_ID	uint32	Process ID	<input type="checkbox"/>	Process ID.
MODIFIED_REQUEST_ID	string(240)	Request ID	<input type="checkbox"/>	Request ID.
MODIFIED_SCHEMA_NAME	string	Schema	<input type="checkbox"/>	Name of the schema.
MODIFIED_SESSION_ID	string(240)	Session ID	<input type="checkbox"/>	ID of the session.
MODIFIED_SIZE_BYTES	int64	Bytes	<input type="checkbox"/>	Size in bytes.
MODIFIED_SIZE_CHARACTERS	int64	Characters	<input type="checkbox"/>	Size in characters.
MODIFIED_TABLE_NAME	string	Table Name	<input type="checkbox"/>	Name of the table.
MODIFIED_TYPE	string(30)	Type	<input checked="" type="checkbox"/>	Type.
NUMBER_OF_ACTIONS	int32		<input checked="" type="checkbox"/>	Number of actions.
NUMBER_OF_DELETES	int32		<input checked="" type="checkbox"/>	Number of deletes.
NUMBER_OF_READS	int32		<input checked="" type="checkbox"/>	Number of reads.

Name	Data Type	Label	Required	Documentation
NUMBER_OF_WRITES	int32	Number of Writes	<input checked="" type="checkbox"/>	Number of w rites.
TOTAL_DELETE_BYTES	int64		<input checked="" type="checkbox"/>	Total bytes deleted.
TOTAL_DELETE_CHARACTERS	int64		<input checked="" type="checkbox"/>	Total characters deleted.
TOTAL_READ_BYTES	int64		<input checked="" type="checkbox"/>	Total bytes read.
TOTAL_READ_CHARACTERS	int64		<input checked="" type="checkbox"/>	Total characters read.
TOTAL_WRITE_BYTES	int64		<input checked="" type="checkbox"/>	Total bytes w ritten.
TOTAL_WRITE_CHARACTERS	int64		<input checked="" type="checkbox"/>	Total characters w ritten.
UID	guid	UID	<input checked="" type="checkbox"/>	Unique ID.

### SYSTEMPACKAGEFUNCTIONARGUMENTS: Data Dictionary Package Function Arguments

Package functions.

Catalog: DataDictionary

Schema: Invantive

Alias: pfn

Label: Package Function Arguments

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMPACKAGEFUNCTIONARGUMENTS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ARGUMENT_DATA_TYPE	string(4000)	Argument Data Type	<input type="checkbox"/>	Argument data type.
ARGUMENT_DEFAULT_VALUE	string(4000)	Argument Default Value	<input type="checkbox"/>	Argument default value.
ARGUMENT_DOCUMENTATION	string(4000)	Argument Documenta- tion	<input type="checkbox"/>	Argument documentation.
ARGUMENT_NAME	string(240)	Argument Name	<input checked="" type="checkbox"/>	Argument name.
ARGUMENT_POSITION	int32	Argument Position	<input checked="" type="checkbox"/>	Argument position.
ARGUMENT_REQUIRED	boolean	Argument Default Value	<input checked="" type="checkbox"/>	Whether a value is required for the argument.
FUNCTION_DESCRIPTION	string(4000)	Function Description	<input type="checkbox"/>	Function description.
FUNCTION_DOCUMENTATION	string(16000)	Function Documenta- tion	<input type="checkbox"/>	Function documentation.
FUNCTION_NAME	string(240)	Function Name	<input checked="" type="checkbox"/>	Function name.
PACKAGE_DESCRIPTION	string(4000)	Package Description	<input checked="" type="checkbox"/>	Package description.
PACKAGE_DOCUMENTATION	string(16000)	Package Documenta- tion	<input type="checkbox"/>	Package documentation.
PACKAGE_NAME	string(240)	Package Name	<input checked="" type="checkbox"/>	Package name.

Name	Data Type	Label	Required	Documentation
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input type="checkbox"/>	Name of the provider.

### SYSTEMPACKAGEFUNCTIONS: Data Dictionary Package Functions

Package function arguments.

Catalog: DataDictionary

Schema: Invantive

Alias: pft

Label: Package Functions

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMPACKAGEFUNCTIONS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
FUNCTION_DESCRIPTION	string(4000)	Function Description	<input type="checkbox"/>	Function description.
FUNCTION_DOCUMENTATION	string(16000)	Function Documentation	<input type="checkbox"/>	Function documentation.
FUNCTION_NAME	string(240)	Function Name	<input checked="" type="checkbox"/>	Function name.
PACKAGE_DESCRIPTION	string(4000)	Package Description	<input checked="" type="checkbox"/>	Package description.
PACKAGE_DOCUMENTATION	string(16000)	Package Documentation	<input type="checkbox"/>	Package documentation.
PACKAGE_NAME	string(240)	Package Name	<input checked="" type="checkbox"/>	Package name.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input type="checkbox"/>	Name of the provider.

### SYSTEMPACKAGES: Data Dictionary Packages

Packages.

Catalog: DataDictionary

Schema: Invantive

Alias: pke

Label: Packages

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMPACKAGES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
PACKAGE_DESCRIPTION	string(4000)	Package Description	<input checked="" type="checkbox"/>	Package description.
PACKAGE_DOCUMENTATION	string(16000)	Package Documenta- tion	<input type="checkbox"/>	Package documentation.
PACKAGE_NAME	string(240)	Package Name	<input checked="" type="checkbox"/>	Package name.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input type="checkbox"/>	Name of the provider.

### SYSTEMPARTITIONS: Data Dictionary Partitions

Partitions for all active data containers.

Catalog: DataDictionary

Schema: Invantive

Alias: ptn

Label: Partitions

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMPARTITIONS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ALLOW_WRITE	boolean	Allow Write	<input checked="" type="checkbox"/>	Whether the partition allow s writes.
CODE	string(240)	Code	<input checked="" type="checkbox"/>	Unique code of the partition.
COMPANY_ADDRESS	string(4000)	Company Address	<input type="checkbox"/>	Address of the company of the partition.
COMPANY_CITY	string(4000)	Company City	<input type="checkbox"/>	City of the company of the parti- tion.
COMPANY_COC_NUMBER	string(4000)	Company Chamber of Commerce Number	<input type="checkbox"/>	Chamber of Commerce number of the company of the partition.
COMPANY_COUNTRY	string(4000)	Company Country	<input type="checkbox"/>	Country of the company of the partition.

Name	Data Type	Label	Required	Documentation
COMPANY_EMAIL_ADDRESS	string(4000)	Company Email Address	<input type="checkbox"/>	Email address of the company of the partition.
COMPANY_IBAN_NUMBER	string(4000)	Company IBAN Number	<input type="checkbox"/>	IBAN number of the company of the partition.
COMPANY_NAME	string(4000)	Company Name	<input type="checkbox"/>	Name of the company of the partition.
COMPANY_PHONE	string(4000)	Company Phone	<input type="checkbox"/>	Phone of the company of the partition.
COMPANY_RSIN_NUMBER	string(4000)	Company RSIN Number	<input type="checkbox"/>	RSIN number of the company of the partition.
COMPANY_SERVER_MOVE_DATE_UTC	datetime	Company Server Move Date (UTC)	<input type="checkbox"/>	Last server move date of the company.
COMPANY_STATE	string(4000)	Company State	<input type="checkbox"/>	State of the company of the partition.
COMPANY_TWITTER_ACCOUNT	string(4000)	Company Twitter Account	<input type="checkbox"/>	Twitter account of the company of the partition.
COMPANY_VAT_NUMBER	string(4000)	Company VAT Number	<input type="checkbox"/>	VAT number of the company of the partition.
COMPANY_WAGE_TAX_NUMBER	string(4000)	Company Wage Tax Number	<input type="checkbox"/>	Wage tax number of the company of the partition.
COMPANY_WEB_SITE	string(4000)	Company Web Site	<input type="checkbox"/>	Web site of the company of the partition.
COMPANY_ZIP_CODE	string(4000)	Company ZIP Code	<input type="checkbox"/>	ZIP-code of the company of the partition.
CONSUMPTION_LAST_CALL	int64	Consumption Last Call	<input type="checkbox"/>	
CREATED_UTC	datetime	Created		When the partition was created (UTC).
DAILY_LIMIT	int64	Maximum Calls per Day	<input type="checkbox"/>	
DAILY_REMAINING	int64	Remaining Calls Today	<input type="checkbox"/>	
DAILY_RESET_DATE_UTC	datetime	Reset Time	<input type="checkbox"/>	
DAILY_USED	int64	Calls Made Today	<input type="checkbox"/>	
DESCRIPTION	string(4000)	Description	<input type="checkbox"/>	Description.
FIRST_DAILY_REMAINING	int64	First Remaining Calls	<input type="checkbox"/>	
FIRST_MEASUREMENT_UTC	datetime	First Measurement Moment	<input type="checkbox"/>	
FIRST_MINUTELY_REMAINING	int64	First Remaining Calls per Minute	<input type="checkbox"/>	
FIRST_USE_UTC	datetime	First Use		When the partition has been used first in this session (UTC).
IS_ACTIVE	boolean	Active		Whether the partition is active.
IS_ARCHIVED	boolean	Archived		Whether the partition is archived.
IS_SELECTED_BY_DEFAULT	boolean	Selected by Default		Whether the partition is selected by default.
IS_SELECTED	boolean	Selected	<input checked="" type="checkbox"/>	Whether the partition is currently selected.
IS_USED	boolean	Used		Whether the partition has been used in this session.

Name	Data Type	Label	Required	Documentation
LABEL	string(4000)	Label	<input checked="" type="checkbox"/>	Label for use in lists.
LAST_MEASUREMENT_UTC	datetime	Measurement Moment	<input type="checkbox"/>	
MASTER_ROLL_UP	string(4000)	Master Roll-up	<input type="checkbox"/>	Master roll-up.
MINUTELY_LIMIT	int64	Maximum Remaining Calls per Minute	<input type="checkbox"/>	
MINUTELY_REMAINING	int64	Remaining Calls per Minute	<input type="checkbox"/>	
MINUTELY_RESET_DATE_UTC	datetime	Reset Time per Minute	<input type="checkbox"/>	
MODIFIED_UTC	datetime	Modified		When the partition was last modified (UTC).
NAME	string(4000)	Name	<input type="checkbox"/>	Name.
PREVIOUS_DAILY_REMAINING	int64	Previous Remaining Calls	<input type="checkbox"/>	
PREVIOUS_DAY_DAILY_REMAINING	int64	Previous Day Remaining Calls	<input type="checkbox"/>	
PREVIOUS_DAY_DAILY_TIMESTAMP_UTC	datetime	Previous Day Timestamp	<input type="checkbox"/>	
PREVIOUS_HOUR_DAILY_REMAINING	int64	Previous Hour Remaining Calls	<input type="checkbox"/>	
PREVIOUS_HOUR_DAILY_TIMESTAMP_UTC	datetime	Previous Hour Timestamp	<input type="checkbox"/>	
PREVIOUS_MEASUREMENT_UTC	datetime	Previous Measurement Moment	<input type="checkbox"/>	
PREVIOUS_MINUTE_DAILY_REMAINING	int64	Previous Minute Remaining Calls	<input type="checkbox"/>	
PREVIOUS_MINUTE_DAILY_TIMESTAMP_UTC	datetime	Previous Minute Timestamp	<input type="checkbox"/>	
PREVIOUS_MINUTELY_REMAINING	int64	Previous Remaining Calls per Minute	<input type="checkbox"/>	
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input checked="" type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
ROLL_UP	string(4000)	Roll-up	<input type="checkbox"/>	Roll-up.
SESSION_IO_BYTES_RECEIVED_OTHER	int64	I/O Execution Bytes Received Other	<input type="checkbox"/>	Number of bytes sent (other).
SESSION_IO_BYTES_RECEIVED_OVERALL	int64	I/O Execution Bytes Received	<input type="checkbox"/>	Number of bytes sent overall.
SESSION_IO_BYTES_RECEIVED_READ	int64	I/O Execution Bytes Received Read	<input type="checkbox"/>	Number of bytes sent for read.
SESSION_IO_BYTES_RECEIVED_WRITE	int64	I/O Execution Bytes Received Write	<input type="checkbox"/>	Number of bytes sent for write.
SESSION_IO_BYTES_SENT_OTHER	int64	I/O Execution Bytes Sent Other	<input type="checkbox"/>	Number of bytes received (other).



Name	Data Type	Label	Required	Documentation
SESSION_IO_BYTES_SENT_OVERALL	int64	I/O Execution Bytes Sent	<input type="checkbox"/>	Number of bytes received overall.
SESSION_IO_BYTES_SENT_READ	int64	I/O Execution Bytes Sent Read	<input type="checkbox"/>	Number of bytes received for read.
SESSION_IO_BYTES_SENT_WRITE	int64	I/O Execution Bytes Sent Write	<input type="checkbox"/>	Number of bytes received for write.
SESSION_IO_DURATION_MS_OTHER	int64	I/O Execution Duration Other (ms)	<input type="checkbox"/>	Total duration for other in milliseconds.
SESSION_IO_DURATION_MS_OVERALL	int64	I/O Execution Duration (ms)	<input type="checkbox"/>	Total duration overall in milliseconds.
SESSION_IO_DURATION_MS_READ	int64	I/O Execution Duration Read (ms)	<input type="checkbox"/>	Total duration for read in milliseconds.
SESSION_IO_DURATION_MS_WRITE	int64	I/O Execution Duration Write (ms)	<input type="checkbox"/>	Total duration for write in milliseconds.
SESSION_IO_EXECUTION_COUNT_OTHER	int64	I/O Execution Count Other	<input type="checkbox"/>	Number of I/Os executed (other).
SESSION_IO_EXECUTION_COUNT_OVERALL	int64	I/O Execution Count Overall	<input type="checkbox"/>	Number of I/Os executed overall.
SESSION_IO_EXECUTION_COUNT_READ	int64	I/O Execution Count Read	<input type="checkbox"/>	Number of I/Os executed for read.
SESSION_IO_EXECUTION_COUNT_WRITE	int64	I/O Execution Count Write	<input type="checkbox"/>	Number of I/Os executed for write.
SHORT_NAME	string(4000)	Short Name	<input type="checkbox"/>	Short name.
SUBSCRIPTION_HOLDER_ADDRESS_LINE_1	string(4000)	Company Address Line 1	<input type="checkbox"/>	Address line 1 of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_ADDRESS_LINE_2	string(4000)	Company Address Line 2	<input type="checkbox"/>	Address line 2 of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_ADDRESS_LINE_3	string(4000)	Company Address Line 3	<input type="checkbox"/>	Address line 3 of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_CITY	string(4000)	Company City	<input type="checkbox"/>	City of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_CO_NUMBER	string(4000)	Company CoC Number	<input type="checkbox"/>	CoC number of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_CODE	string(4000)	Owner Company Code	<input type="checkbox"/>	Code of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_COUNTRY	string(4000)	Company Country	<input type="checkbox"/>	Country of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_EMAIL_ADDRESS	string(4000)	Company Email Address	<input type="checkbox"/>	Email address of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_GUID	guid	Owner Company GUID	<input type="checkbox"/>	Unique GUID of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_ID	string(4000)	Owner Company ID	<input type="checkbox"/>	Unique ID of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_LEGAL_FORM	string(4000)	Company Legal Form	<input type="checkbox"/>	Legal form of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_NAME	string(4000)	Owner Company Name	<input type="checkbox"/>	Name of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_PHONE	string(4000)	Company Phone	<input type="checkbox"/>	Phone number of the subscription holder of the partition.

Name	Data Type	Label	Required	Documentation
SUBSCRIPTION_HOLDER_SBI_CODE	string(4000)	Company SBI Code	<input type="checkbox"/>	SBI code of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_VAT_NUMBER	string(4000)	Company VAT Number	<input type="checkbox"/>	VAT number of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_WEB_SITE	string(4000)	Company Website	<input type="checkbox"/>	Website of the subscription holder of the partition.
SUBSCRIPTION_HOLDER_ZIP_CODE	string(4000)	Company ZIP Code	<input type="checkbox"/>	ZIP code of the subscription holder of the partition.
UPDATE_COUNT	int64	Update Count	<input type="checkbox"/>	
UPDATE_WITH_CHANGE_COUNT	int64	Update with Change Count	<input type="checkbox"/>	

### SYSTEMPARTITIONSTATISTICS: Data Dictionary System Partition Statistics

Statistics per partitions for all active data containers.

Catalog: DataDictionary

Schema: Invantive

Alias: psc

Label: System Partition Statistics

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMPARTITIONSTATISTICS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
COMPANY_SERVER_MOVE_DATE_UTC	datetime	Company Server Move Date (UTC)	<input type="checkbox"/>	Last server move date of the company.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
PTN_ALLOW_WRITE	boolean	Partition Allow Write	<input checked="" type="checkbox"/>	Whether the partition allows writes.
PTN_CODE	string(240)	Partition Code	<input checked="" type="checkbox"/>	Unique code of the partition.
PTN_COMPANY_ADDRESS	string(4000)	Partition Company Address	<input type="checkbox"/>	Address of the company of the partition.
PTN_COMPANY_CITY	string(4000)	Partition Company City	<input type="checkbox"/>	City of the company of the partition.

Name	Data Type	Label	Required	Documentation
PTN_COMPANY_COC_NUMBER	string(4000)	Partition Company CoC Number	<input type="checkbox"/>	Chamber of Commerce number of the company of the partition.
PTN_COMPANY_COUNTRY	string(4000)	Partition Company Country	<input type="checkbox"/>	Country of the company of the partition.
PTN_COMPANY_EMAIL_ADDRESS	string(4000)	Partition Company Email Address	<input type="checkbox"/>	Email address of the company of the partition.
PTN_COMPANY_IBAN_NUMBER	string(4000)	Company IBAN Number	<input type="checkbox"/>	IBAN number of the company of the partition.
PTN_COMPANY_NAME	string(4000)	Partition Company Name	<input type="checkbox"/>	Name of the company of the partition.
PTN_COMPANY_PHONE	string(4000)	Partition Company Phone	<input type="checkbox"/>	Phone of the company of the partition.
PTN_COMPANY_RSIN_NUMBER	string(4000)	Company RSIN Number	<input type="checkbox"/>	RSIN number of the company of the partition.
PTN_COMPANY_STATE	string(4000)	Partition Company State	<input type="checkbox"/>	State of the company of the partition.
PTN_COMPANY_TWITTER_ACCOUNT	string(4000)	Partition Company Twitter Account	<input type="checkbox"/>	Twitter account of the company of the partition.
PTN_COMPANY_VAT_NUMBER	string(4000)	Partition Company VAT Number	<input type="checkbox"/>	VAT number of the company of the partition.
PTN_COMPANY_WAGE_TAX_NUMBER	string(4000)	Partition Company Wage Tax Number	<input type="checkbox"/>	Wage tax number of the company of the partition.
PTN_COMPANY_WEB_SITE	string(4000)	Partition Company Web Site	<input type="checkbox"/>	Web site of the company of the partition.
PTN_COMPANY_ZIP_CODE	string(4000)	Partition Company ZIP Code	<input type="checkbox"/>	ZIP-code of the company of the partition.
PTN_CREATED_UTC	datetime	Partition Created		When the partition was created (UTC).
PTN_DESCRIPTION	string(4000)	Partition Description	<input type="checkbox"/>	Description.
PTN_FIRST_USE_UTC	datetime	Partition First Use		When the partition has been used first in this session (UTC).
PTN_IS_SELECTED_BY_DEFAULT	boolean	Partition Selected by Default		Whether the partition is selected by default.
PTN_IS_SELECTED	boolean	Partition Selected	<input checked="" type="checkbox"/>	Whether the partition is currently selected.
PTN_IS_USED	boolean	Partition Used		Whether the partition has been used in this session.
PTN_LABEL	string(4000)	Partition Label	<input checked="" type="checkbox"/>	Label for use in lists.
PTN_MASTER_ROLL_UP	string(4000)	Partition Master Roll-up	<input type="checkbox"/>	Master roll-up.
PTN_MODIFIED_UTC	datetime	Partition Modified		When the partition was last modified (UTC).
PTN_NAME	string(4000)	Partition Name	<input type="checkbox"/>	Name.
PTN_ROLL_UP	string(4000)	Partition Roll-up	<input type="checkbox"/>	Roll-up.
PTN_SHORT_NAME	string(4000)	Partition Short Name	<input type="checkbox"/>	Short name.
STC_CODE	string(240)	Code	<input checked="" type="checkbox"/>	Unique code of the partition statistic.
STC_CREATION_DATE_UTC	datetime	Creation Date	<input type="checkbox"/>	Date at which the entry was originally created (UTC).

Name	Data Type	Label	Required	Documentation
STC_DESCRIPTION	string(240)	Description	<input type="checkbox"/>	Description of the partition statistic.
STC_IS_STANDARD	boolean	Is Standard?	<input checked="" type="checkbox"/>	Is the statistic a standard statistic?
STC_REDUCED_ACCURACY_VALUE	string(240)	Reduced Accuracy Value	<input type="checkbox"/>	Reduced accuracy value of the partition statistic.
STC_TYPE	string(240)	Value Type	<input checked="" type="checkbox"/>	Type of value of the partition statistic.
STC_VALUE	string(240)	Value	<input type="checkbox"/>	Value of the partition statistic.

### SYSTEMPARTITIONTAGS: Data Dictionary System Partition Tags

Tags per partitions for all active data containers.

Catalog: DataDictionary

Schema: Invantive

Alias: ptg

Label: System Partition Tags

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMPARTITIONTAGS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
PTN_ALLOW_WRITE	boolean	Partition Allow Write	<input checked="" type="checkbox"/>	Whether the partition allows writes.
PTN_CODE	string(240)	Partition Code	<input checked="" type="checkbox"/>	Unique code of the partition.
PTN_COMPANY_ADDRESS	string(4000)	Partition Company Address	<input type="checkbox"/>	Address of the company of the partition.
PTN_COMPANY_CITY	string(4000)	Partition Company City	<input type="checkbox"/>	City of the company of the partition.
PTN_COMPANY_COC_NUMBER	string(4000)	Partition Company CoC Number	<input type="checkbox"/>	Chamber of Commerce number of the company of the partition.
PTN_COMPANY_COUNTRY	string(4000)	Partition Company Country	<input type="checkbox"/>	Country of the company of the partition.

Name	Data Type	Label	Required	Documentation
PTN_COMPANY_EMAIL_ADDRESS	string(4000)	Partition Company Email Address	<input type="checkbox"/>	Email address of the company of the partition.
PTN_COMPANY_IBAN_NUMBER	string(4000)	Company IBAN Number	<input type="checkbox"/>	IBAN number of the company of the partition.
PTN_COMPANY_NAME	string(4000)	Partition Company Name	<input type="checkbox"/>	Name of the company of the partition.
PTN_COMPANY_PHONE	string(4000)	Partition Company Phone	<input type="checkbox"/>	Phone of the company of the partition.
PTN_COMPANY_RSIN_NUMBER	string(4000)	Company RSIN Number	<input type="checkbox"/>	RSIN number of the company of the partition.
PTN_COMPANY_SERVER_MOVE_DATE_UTC	datetime	Company Server Move Date (UTC)	<input type="checkbox"/>	Last server move date of the company.
PTN_COMPANY_STATE	string(4000)	Partition Company State	<input type="checkbox"/>	State of the company of the partition.
PTN_COMPANY_TWITTER_ACCOUNT	string(4000)	Partition Company Twitter Account	<input type="checkbox"/>	Twitter account of the company of the partition.
PTN_COMPANY_VAT_NUMBER	string(4000)	Partition Company VAT Number	<input type="checkbox"/>	VAT number of the company of the partition.
PTN_COMPANY_WAGE_TAX_NUMBER	string(4000)	Partition Company Wage Tax Number	<input type="checkbox"/>	Wage tax number of the company of the partition.
PTN_COMPANY_WEB_SITE	string(4000)	Partition Company Web Site	<input type="checkbox"/>	Web site of the company of the partition.
PTN_COMPANY_ZIP_CODE	string(4000)	Partition Company ZIP Code	<input type="checkbox"/>	ZIP-code of the company of the partition.
PTN_CREATED_UTC	datetime	Partition Created		When the partition was created (UTC).
PTN_DESCRIPTION	string(4000)	Partition Description	<input type="checkbox"/>	Description.
PTN_FIRST_USE_UTC	datetime	Partition First Use		When the partition has been used first in this session (UTC).
PTN_IS_SELECTED_BY_DEFAULT	boolean	Partition Selected by Default		Whether the partition is selected by default.
PTN_IS_SELECTED	boolean	Partition Selected	<input checked="" type="checkbox"/>	Whether the partition is currently selected.
PTN_IS_USED	boolean	Partition Used		Whether the partition has been used in this session.
PTN_LABEL	string(4000)	Partition Label	<input checked="" type="checkbox"/>	Label for use in lists.
PTN_MASTER_ROLL_UP	string(4000)	Partition Master Roll-up	<input type="checkbox"/>	Master roll-up.
PTN_MODIFIED_UTC	datetime	Partition Modified		When the partition was last modified (UTC).
PTN_NAME	string(4000)	Partition Name	<input type="checkbox"/>	Name.
PTN_ROLL_UP	string(4000)	Partition Roll-up	<input type="checkbox"/>	Roll-up.
PTN_SHORT_NAME	string(4000)	Partition Short Name	<input type="checkbox"/>	Short name.
SEQ_NR	int32	Sequences		Unique sequence number of the tag for the partition.
TAG_CODE	string(240)	Code	<input checked="" type="checkbox"/>	Unique code of the partition tag.
TAG_CREATION_DATE	datetime	Creation Date		Date at which the entry was originally created.

Name	Data Type	Label	Required	Documentation
TAG_CREATOR	string(240)	Creator	<input type="checkbox"/>	Person that first assigned a value.
TAG_DOMAIN_CODE	string(240)	Domain Code	<input checked="" type="checkbox"/>	Domain of the code of the partition tag.
TAG_TYPE	string(240)	Value Type	<input checked="" type="checkbox"/>	Type of value of the partition tag.
TAG_UPDATE_DATE	datetime	Update Date		Date at which the entry was last modified.
TAG_UPDATER	string(240)	Updater	<input type="checkbox"/>	Person that last assigned a value.
TAG_VALUE	string(240)	Value	<input type="checkbox"/>	Value of the partition tag.

### SYSTEMPROPERTIES: Data Dictionary System Properties and Their Values

Properties and their values of Invantive's UniversalSQL engine.

Catalog: DataDictionary

Schema: Invantive

Alias: ppy

Label: System Properties and Their Values

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMPROPERTIES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CLASS_NAME	string(240)	Class Name	<input type="checkbox"/>	Internal class name.
DESCRIPTION	string(4000)	Description	<input type="checkbox"/>	Description.
NAME	string(240)	Name	<input checked="" type="checkbox"/>	Name of the property.
VALUE	string(4000)	Value	<input type="checkbox"/>	Current value of the property.

### SYSTEMPROVIDERATTRIBUTES: Data Dictionary System Provider Attributes

Attributes per registered and licensed provider.

Catalog: DataDictionary

Schema: Invantive

Alias: pae

Label: System Provider Attributes

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMPROVIDERATTRIBUTES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ALLOW_DISPLAY	boolean	Allow Display		Whether to allow displaying the value.
ALLOW_SET_FROM_CONNECTION_STRING	boolean	Allow Set from Connection String		Whether to allow setting the value from connection string.
ALLOW_SET_FROM_LOG_ON	boolean	Allow Set from Log On		Whether to allow setting the value from log on window .
ALLOW_SET_FROM_PROVIDER_FILE	boolean	Allow Set from Provider File		Whether to allow setting the value from provider file.
ALLOW_SET_FROM_SET_STATEMENT	boolean	Allow Set from Set Statement		Whether to allow setting the value from set SQL statement.
CATEGORY	string(4000)	Category	<input type="checkbox"/>	Category of the attribute.
CODE	string(240)	Code	<input checked="" type="checkbox"/>	Code of the attribute.
DEFAULT_VALUE	string(4000)	Default Value	<input type="checkbox"/>	Default value of the property.
DEFINING_TYPE_ASSEMBLY_QUALIFIED_NAME	string(240)	Defining Type Assembly Qualified Name	<input type="checkbox"/>	Assembly qualified name of the defining type.
DEFINING_TYPE_NAME	string(240)	Defining Type Name	<input type="checkbox"/>	Name of the defining type.
DEFINING_TYPE_NAMESPACE	string(240)	Defining Type Namespace	<input type="checkbox"/>	Namespace of the defining type.
DEFINING_TYPE_PROVIDER_DESCRIPTION	string(4000)	Defining Type Provider Description	<input type="checkbox"/>	Description of the provider for the defining type.
DEFINING_TYPE_PROVIDER_DISPLAY_NAME	string(240)	Defining Type Provider Display Name	<input type="checkbox"/>	Display name of the provider for the defining type.
DEFINING_TYPE_PROVIDER_NAME	string(240)	Defining Type Provider Name	<input type="checkbox"/>	Name of the provider for the defining type.
DESCRIPTION	string(4000)	Description	<input checked="" type="checkbox"/>	Description of the attribute.
DISPLAY_ORDER	int32	Display Order	<input checked="" type="checkbox"/>	Display order.
EXPLANATION	string(4000)	Explanation	<input type="checkbox"/>	Explanation of the attribute.
HAS_GETTER	boolean	Has Getter		Whether the attribute has a get method.
HAS_SETTER	boolean	Has Setter		Whether the attribute has a set method.
ORIGIN	string(4000)	Origin	<input checked="" type="checkbox"/>	Origin of the current value of the property.
PROVIDER_COMMUNITY_EDITION	boolean	Is Community Edition	<input checked="" type="checkbox"/>	Is application software offered for free?
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_DOCUMENTATION_URL	string(4000)	Documentation (URL)	<input type="checkbox"/>	Documentation URL.
PROVIDER_DOCUMENTATION	string(32767)	Provider Documentation	<input type="checkbox"/>	Documentation of the provider.

Name	Data Type	Label	Required	Documentation
PROVIDER_DOWNLOAD_IMPLEMENTATION_URL	string(4000)	Download Implementation URL	<input type="checkbox"/>	Download URL for implementation.
PROVIDER_INFLUENCES_MAXIMUM_NUMBER_JOINS	boolean	Influences Maximum Number of Joins	<input checked="" type="checkbox"/>	Influences maximum number of joins?
PROVIDER_IS_DEFAULT_FLAG	boolean	Is Default?	<input checked="" type="checkbox"/>	Is the default provider?
PROVIDER_IS_SERVICE_PROVIDER_FLAG	boolean	Is Service Provider?	<input checked="" type="checkbox"/>	Is the provider a service provider?
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_PRODUCTION_USE_ALLOWED	boolean	Production Use Allowed	<input checked="" type="checkbox"/>	Is production use allowed?
PROVIDER_PUBLIC_DATA	boolean	Is Public Data?	<input checked="" type="checkbox"/>	Is the data offered publicly?
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
PROVIDER_TECHNICAL_DOCUMENTATION_URL	string(4000)	Technical Documentation (URL)	<input type="checkbox"/>	Technical documentation URL.
PROVIDER_UID	guid	Provider UID	<input checked="" type="checkbox"/>	Unique ID of the provider.
VALUE_REVEALS_OS_PROPERTIES	boolean	Value Reveals OS-properties		Whether the attribute reveals OS-properties.
VALUE	string(4000)	Value	<input type="checkbox"/>	Current value of the property.

### SYSTEMPROVIDERS: Data Dictionary Providers

All registered and licensed providers available in Invantive SQL.

Catalog: DataDictionary

Schema: Invantive

Alias: pvr

Label: Providers

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMPROVIDERS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ABBREVIATION	string(30)	Abbreviation	<input checked="" type="checkbox"/>	Abbreviation.
COMMERCIAL_NAME	string(240)	Commercial Name	<input checked="" type="checkbox"/>	Commercial name.
COMMUNITY_EDITION	boolean	Is Community Edition	<input checked="" type="checkbox"/>	Is application software offered for free?
DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
DEFAULT_CONNECTION_ID	guid	Default Connection ID	<input checked="" type="checkbox"/>	Default GUID for first discovered connection of this connector.



Name	Data Type	Label	Required	Documentation
DEFAULT_NUMBER_PARALLEL_REQUESTS	int32	Default Number of Parallel Requests		Default number of parallel requests.
DEFAULT_SLOTBASED_RATE_LIMIT_LENGTH_MS	int64	Default Slot-based Rate Limit Length (ms)	<input checked="" type="checkbox"/>	Default length in ms of a slot-based rate limit.
DEFAULT_SLOTBASED_RATE_LIMIT_SLOTS	int32	Default Slot-based Rate Limit Slots	<input type="checkbox"/>	Default number of slots of a slot-based rate limit.
DESCRIPTION	string(16000)	Description	<input checked="" type="checkbox"/>	Description.
DISPLAY_NAME	string(240)	Display Name	<input checked="" type="checkbox"/>	Display name.
DOCUMENTATION_URL	string(4000)	Documentation (URL)	<input type="checkbox"/>	Documentation URL.
DOCUMENTATION	string(32767)	Documentation	<input type="checkbox"/>	Documentation.
DOWNLOAD_IMPLEMENTATION_URL	string(4000)	Download Implementation URL	<input type="checkbox"/>	Download URL for implementation.
ICON_RESOURCE_NAME_16	string(240)	Icon Resource Name (16x16)	<input type="checkbox"/>	Name of file with 16x16 icon.
INFLUENCES_MAXIMUM_NUMBER_JOINS	boolean	Influences Maximum Number of Joins	<input checked="" type="checkbox"/>	Influences maximum number of joins?
IS_CATALOG_USED_IN_FULL_QUALIFIED_NAME	boolean	Is Catalog Used in Full Qualified Name	<input checked="" type="checkbox"/>	Whether the catalog name is used in constructing the full qualified name.
IS_DEFAULT_FLAG	boolean	Is Default?	<input checked="" type="checkbox"/>	Is the default connector?
IS_SCHEMA_USED_IN_FULL_QUALIFIED_NAME	boolean	Is Schema Used in Full Qualified Name	<input checked="" type="checkbox"/>	Whether the schema name is used in constructing the full qualified name.
IS_SERVICE_PROVIDER_FLAG	boolean	Is Service Provider?	<input checked="" type="checkbox"/>	Is the connector a service connector?
MAIN_CATEGORY	string(240)	Main Category	<input checked="" type="checkbox"/>	Main category.
MAXIMUM_NUMBER_USABLE_PARTITIONS	int32	Maximum Number of Usable Partitions		Maximum number of usable partitions.
NAME	string(240)	Name	<input checked="" type="checkbox"/>	Name of the connector.
PARTITION_CODE_COLUMN_NAME	string(240)	Partition Code Column Name	<input type="checkbox"/>	Name of the partition code column.
PARTITION_INFO_ALL_PARTITIONS_SELECTED	boolean	Partition Has Selected All Partitions	<input checked="" type="checkbox"/>	Whether the connector has selected all partitions.
PARTITION_INFO_LABEL_SINGULAR	string(240)	Partition Label Singular	<input type="checkbox"/>	Partition label in singular form.
PARTITION_INFO_PREFERRED_UI_LABEL_PLURAL	string(240)	Partition Preferred UI Label Plural	<input type="checkbox"/>	Partition preferred UI label in plural form.
PARTITION_INFO_PREFERRED_UI_LABEL_SELECTED_ELEMENTS	string(240)	Partition Preferred UI Label Selected Elements	<input type="checkbox"/>	Partition preferred UI label for selected elements.
PARTITION_INFO_PREFERRED_UI_LABEL_SELECTOR	string(240)	Partition Preferred UI Label Selector	<input type="checkbox"/>	Partition preferred UI label for selector.
PARTITION_INFO_PREFERRED_UI_LABEL_SINGULAR	string(240)	Partition Preferred UI Label Singular	<input type="checkbox"/>	Partition preferred UI label in singular form.
PARTITION_INFO_SUPPORTS_MULTIPLE_SELECTED_PARTITIONS	boolean	Supports Multiple Selected Partitions	<input checked="" type="checkbox"/>	Whether the connector supports multiple selected partitions.
PARTITION_INFO_SUPPORTS_NO_SELECTED_PARTITIONS	boolean	Partition Supports No Selected Partitions	<input checked="" type="checkbox"/>	Whether the connector supports no selected partitions.

Name	Data Type	Label	Required	Documentation
PARTITION_INFO_SUPPORTS_PARTITIONS	boolean	Supports Partitions	<input checked="" type="checkbox"/>	Whether the connector supports partitions.
PARTITION_LABEL_SINGULAR	string(240)	Partition Label Singular	<input type="checkbox"/>	Partition label in singular form.
PARTITIONS_INFO_LABEL_PLURAL	string(240)	Partition Label Plural	<input type="checkbox"/>	Partition label in plural form.
PARTITIONS_INFO_MASTER_ROLLUP_LABEL	string(240)	Partition Rollup Label Singular	<input type="checkbox"/>	Partition master rollup label in singular form.
PARTITIONS_INFO_ROLLUP_LABEL	string(240)	Partition Rollup Label Singular	<input type="checkbox"/>	Partition rollup label in singular form.
PRODUCTION_USE_ALLOWED	boolean	Production Use Allowed	<input checked="" type="checkbox"/>	Is production use allowed?
PROVIDER_UID	guid	Provider UID	<input checked="" type="checkbox"/>	Unique ID of the provider.
PUBLIC_DATA	boolean	Is Public Data?	<input checked="" type="checkbox"/>	Is the data offered publicly?
SHORT_NAME_RESOURCE	string(240)	Short Name for Resources	<input checked="" type="checkbox"/>	Short name for use in translation resources.
SHORT_NAME	string(240)	Short Name	<input checked="" type="checkbox"/>	Short name.
SLOTBASED_RATE_LIMIT_LENGTH_MS	int64	Slot-based Rate Limit Length (ms)	<input checked="" type="checkbox"/>	Length in ms of a slot-based rate limit.
SLOTBASED_RATE_LIMIT_SLOTS	int32	Slot-based Rate Limit Slots	<input type="checkbox"/>	Number of slots of a slot-based rate limit, null means no limit.
SQL_PREFIX_PARAMETER	string(30)	SQL Prefix Parameter	<input type="checkbox"/>	SQL parameter prefix.
STRING_COMPARISON_IS_CASE_SENSITIVE	boolean	String Comparison is Case-Sensitive	<input checked="" type="checkbox"/>	Whether the connector matches string case-sensitive.
SUPPORTS_COLUMN_FILTERING	boolean	Supports Column Filtering	<input checked="" type="checkbox"/>	Whether column filtering is supported; if true, the connector can filter the resulting columns itself based on a select statement.
SUPPORTS_NATIVE_SCALAR_REQUESTS	boolean	Supports Native Scalar Requests	<input checked="" type="checkbox"/>	Whether the platform supports native scalar requests.
SUPPORTS_NATIVE_SQL	boolean	Supports Native SQL	<input checked="" type="checkbox"/>	Whether the platform supports native SQL.
SUPPORTS_ORDERING	boolean	Supports Ordering	<input checked="" type="checkbox"/>	Whether the connector supports ordering.
SUPPORTS_SIMPLE_FILTER_DELETE	boolean	Supports Simple Filter Delete	<input checked="" type="checkbox"/>	Whether the connector supports delete using simple filters.
SUPPORTS_SIMPLE_FILTER_UPDATE	boolean	Supports Simple Filter Update	<input checked="" type="checkbox"/>	Whether the connector supports update using simple filters.
TECHNICAL_DOCUMENTATION_URL	string(4000)	Technical Documentation (URL)	<input type="checkbox"/>	Technical documentation URL.

### SYSTEMPROVIDERSACTIVE: Data Dictionary Active System Providers

All providers currently loaded in Invantive SQL.

Catalog: DataDictionary

Schema: Invantive

Alias: pae

Label: Active System Providers

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariant UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMPROVIDERSACTIVE are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ABBREVIATION	string(30)	Abbreviation	<input checked="" type="checkbox"/>	Abbreviation.
BULK_INSERT_COUNT	int32	Bulk Insert Count	<input checked="" type="checkbox"/>	Number of times a bulk insert was executed.
BULK_INSERT_DURATION_MAX_MS	int64	Bulk Insert Duration Maximum (ms)	<input checked="" type="checkbox"/>	Maximum time spent in ms during bulk insert.
BULK_INSERT_DURATION_TOTAL_MS	int64	Bulk Insert Duration Total (ms)	<input checked="" type="checkbox"/>	Total time spent in ms during bulk insert.
BULK_INSERT_PAGE_COUNT	int32	Bulk Insert Page Count	<input checked="" type="checkbox"/>	Number of times a bulk page insert was executed.
BULK_INSERT_ROW_COUNT	int64	Bulk Insert Row Count	<input checked="" type="checkbox"/>	Number of rows inserted in bulk.
COMMERCIAL_NAME	string(240)	Commercial Name	<input checked="" type="checkbox"/>	Commercial name.
COMMUNITY_EDITION	boolean	Is Community Edition	<input checked="" type="checkbox"/>	Is application software offered for free?
CONNECTION_OPENED_AT_UTC	datetime	Connection Opened at (UTC)	<input type="checkbox"/>	Time the connection was opened (UTC).
DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
DATABASE_POOL_DESCRIPTION	string(4000)	Database Pool Description	<input type="checkbox"/>	Database pool description, in which multiple databases are pooled.
DATABASE_PRICING_TIER	string(240)	Database Pricing Tier	<input type="checkbox"/>	Database pricing tier.
DATABASE_SERVICE_TIER	string(240)	Database Service Tier	<input type="checkbox"/>	Database service tier.
DATABASE_VERSION_NUMBER	string(240)	Database Version Number	<input type="checkbox"/>	Current database version number.
DATABASE_VERSION	string(240)	Database Version	<input type="checkbox"/>	Current database version including platform, edition and version number.
DEFAULT_CONNECTION_ID	guid	Default Connection ID	<input checked="" type="checkbox"/>	Default GUID for first discovered connection of this provider.
DEFAULT_NUMBER_PARALLEL_REQUESTS	int32	Default Number of Parallel Requests	<input type="checkbox"/>	Default number of parallel requests.
DEFAULT_SLOTBASED_RATE_LIMIT_LENGTH_MS	int64	Default Slot-based Rate Limit Length (ms)	<input checked="" type="checkbox"/>	Default length in ms of a slot-based rate limit.
DEFAULT_SLOTBASED_RATE_LIMIT_SLOTS	int32	Default Slot-based Rate Limit Slots	<input type="checkbox"/>	Default number of slots of a slot-based rate limit.
DESCRIPTION	string(4000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
DISPLAY_NAME	string(240)	Display Name	<input checked="" type="checkbox"/>	Display name.
DOCUMENTATION_URL	string(4000)	Documentation (URL)	<input type="checkbox"/>	Documentation URL.
DOCUMENTATION	string(32767)	Documentation	<input type="checkbox"/>	Documentation.

Name	Data Type	Label	Required	Documentation
DOWNLOAD_IMPLEMENTATION_URL	string(4000)	Download Implementation URL	<input type="checkbox"/>	Download URL for implementation.
HTTP_DISK_CACHE_HITS	int32	HTTP Disk Cache Hits	<input checked="" type="checkbox"/>	Number of HTTP disk cache hits.
HTTP_DISK_CACHE_INCORRECT_CONTENT_HITS	int32	HTTP Disk Cache Incorrect Content Hits	<input checked="" type="checkbox"/>	HTTP disk cache number of incorrect content hits.
HTTP_DISK_CACHE_MISSES	int32	HTTP Disk Cache Misses	<input checked="" type="checkbox"/>	Number of HTTP disk cache misses.
HTTP_DISK_CACHE_READ_BYTES	int64	HTTP Disk Cache Read (byte)	<input checked="" type="checkbox"/>	Number of HTTP disk cache disk bytes.
HTTP_DISK_CACHE_READ_DECOMPRESS_OPERATIONS	int64	HTTP Disk Cache Read Decompress Operations	<input checked="" type="checkbox"/>	Number of HTTP disk cache decompress operations.
HTTP_DISK_CACHE_READ_DECOMPRESSED_BYTES	int64	HTTP Disk Cache Read Decompressed (byte)	<input checked="" type="checkbox"/>	Number of HTTP disk cache decompressed bytes.
HTTP_DISK_CACHE_READ_DECRYPT_DURATION_MS	int64	HTTP Disk Cache Read Decrypt Duration (ms)	<input checked="" type="checkbox"/>	Number of HTTP disk cache read decrypt duration (ms).
HTTP_DISK_CACHE_READ_DECRYPT_OPERATIONS	int64	HTTP Disk Cache Read Decrypt Operations	<input checked="" type="checkbox"/>	Number of HTTP disk cache decrypt operations.
HTTP_DISK_CACHE_READ_DECRYPTED_BYTES	int64	HTTP Disk Cache Read Decrypted (byte)	<input checked="" type="checkbox"/>	Number of HTTP disk cache decrypted bytes.
HTTP_DISK_CACHE_READ_OPERATIONS	int64	HTTP Disk Cache Read Operations	<input checked="" type="checkbox"/>	Number of HTTP disk cache operations.
HTTP_DISK_CACHE_UNSUPPORTED_ENCRYPTION_HITS	int32	HTTP Disk Cache Unsupported Encryption Hits	<input checked="" type="checkbox"/>	HTTP disk cache number of unsupported encryption hits.
HTTP_DISK_CACHE_UNSUPPORTED_FORMAT_HITS	int32	HTTP Disk Cache Unsupported Format Hits	<input checked="" type="checkbox"/>	HTTP disk cache number of unsupported format hits.
HTTP_DISK_CACHE_WRITE_BYTES	int64	HTTP Disk Cache Write (byte)	<input checked="" type="checkbox"/>	Number of HTTP disk cache disk cache write bytes.
HTTP_DISK_CACHE_WRITE_COMPRESS_OPERATIONS	int64	HTTP Disk Cache Write Compress Operations	<input checked="" type="checkbox"/>	Number of HTTP disk cache write compress operations.
HTTP_DISK_CACHE_WRITE_COMPRESSED_BYTES	int64	HTTP Disk Cache Write Compressed (byte)	<input checked="" type="checkbox"/>	Number of HTTP disk cache write compressed bytes.
HTTP_DISK_CACHE_WRITE_ENCRYPT_DURATION_MS	int64	HTTP Disk Cache Write Encrypt Duration (ms)	<input checked="" type="checkbox"/>	Number of HTTP disk cache write encrypt duration (ms).
HTTP_DISK_CACHE_WRITE_ENCRYPT_OPERATIONS	int64	HTTP Disk Cache Write Encrypt Operations	<input checked="" type="checkbox"/>	Number of HTTP disk cache write encrypt operations.
HTTP_DISK_CACHE_WRITE_ENCRYPTED_BYTES	int64	HTTP Disk Cache Write Encrypted (byte)	<input checked="" type="checkbox"/>	Number of HTTP disk cache write encrypted bytes.
HTTP_DISK_CACHE_WRITE_OPERATIONS	int64	HTTP Disk Cache Write Operations	<input checked="" type="checkbox"/>	Number of HTTP disk cache write operations.
HTTP_MEMORY_CACHE_COUNT	int32	HTTP Memory Cache Count	<input checked="" type="checkbox"/>	Number of entries in memory cache.
HTTP_MEMORY_CACHE_HITS	int32	HTTP Memory Cache Hits	<input checked="" type="checkbox"/>	Number of memory cache hits.
HTTP_MEMORY_CACHE_INCORRECT_CONTENT_HITS	int32	HTTP Memory Cache Incorrect Content Hits	<input checked="" type="checkbox"/>	Number of memory cache incorrect content hits.
HTTP_MEMORY_CACHE_MISSES_FETCH_TIME_MS_MAX	double	HTTP Memory Cache Misses Fetch Time Maximum (ms)	<input checked="" type="checkbox"/>	Maximum original HTTP memory cache fetch time (ms).

Name	Data Type	Label	Required	Documentation
HTTP_MEMORY_CACHE_MISSES_FETCH_TIME_MS_MIN	double	HTTP Memory Cache Misses Fetch Time Minimum (ms)	<input checked="" type="checkbox"/>	Minimum original HTTP memory cache fetch time (ms).
HTTP_MEMORY_CACHE_MISSES_FETCH_TIME_MS_TOTAL	double	HTTP Memory Cache Misses Fetch Time Total (ms)	<input checked="" type="checkbox"/>	Total original HTTP memory cache fetch time (ms).
HTTP_MEMORY_CACHE_MISSES	int32	HTTP Memory Cache Misses	<input checked="" type="checkbox"/>	Number of memory cache misses.
HTTP_MEMORY_CACHE_SIZE	int64	HTTP Memory Cache Cache Size	<input checked="" type="checkbox"/>	Estimated size of character of the memory cache.
HTTP_MEMORY_CACHE_UNSUPPORTED_FORMAT_HITS	int32	HTTP Memory Cache Unsupported Format Hits	<input checked="" type="checkbox"/>	Number of memory cache unsupported format hits.
HTTP_REQUESTS_EXECUTED	int32	HTTP Requests Executed	<input checked="" type="checkbox"/>	Number of HTTP requests made.
ICON_RESOURCE_NAME_16	string(240)	Icon Resource Name (16x16)	<input type="checkbox"/>	Name of file with 16x16 icon.
INFLUENCES_MAXIMUM_NUMBER_JOINS	boolean	Influences Maximum Number of Joins	<input checked="" type="checkbox"/>	Influences maximum number of joins?
IS_CATALOG_USED_IN_FULL_QUALIFIED_NAME	boolean	Is Catalog Used in Full Qualified Name	<input checked="" type="checkbox"/>	Whether the catalog name is used in constructing the full qualified name.
IS_DEFAULT_FLAG	boolean	Is Default?	<input checked="" type="checkbox"/>	Is the default provider?
IS_SCHEMA_USED_IN_FULL_QUALIFIED_NAME	boolean	Is Schema Used in Full Qualified Name	<input checked="" type="checkbox"/>	Whether the schema name is used in constructing the full qualified name.
IS_SERVICE_PROVIDER_FLAG	boolean	Is Service Provider?	<input checked="" type="checkbox"/>	Is the provider a service provider?
MAIN_CATEGORY	string(240)	Main Category	<input checked="" type="checkbox"/>	Main category.
MAXIMUM_NUMBER_PARALLEL_REQUESTS	int32	Maximum Number of Parallel Requests		Maximum number of parallel requests.
MAXIMUM_NUMBER_USABLE_PARTITIONS	int32	Maximum Number of Usable Partitions		Maximum number of usable partitions.
NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PARTITION_CODE_COLUMN_NAME	string(240)	Partition Code Column Name	<input type="checkbox"/>	Name of the partition code column.
PARTITION_LABEL_SINGULAR	string(240)	Partition Label Singular	<input type="checkbox"/>	Partition label in singular form.
PRODUCTION_USE_ALLOWED	boolean	Production Use Allowed	<input checked="" type="checkbox"/>	Is production use allowed?
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PUBLIC_DATA	boolean	Is Public Data?	<input checked="" type="checkbox"/>	Is the data offered publicly?
SESSION_IO_BYTES_RECEIVED_OTHER	int64	I/O Execution Bytes Received Other	<input checked="" type="checkbox"/>	Number of bytes sent (other).
SESSION_IO_BYTES_RECEIVED_OVERALL	int64	I/O Execution Bytes Received	<input checked="" type="checkbox"/>	Number of bytes sent overall.
SESSION_IO_BYTES_RECEIVED_READ	int64	I/O Execution Bytes Received Read	<input checked="" type="checkbox"/>	Number of bytes sent for read.
SESSION_IO_BYTES_RECEIVED_WRITE	int64	I/O Execution Bytes Received Write	<input checked="" type="checkbox"/>	Number of bytes sent for write.

Name	Data Type	Label	Required	Documentation
SESSION_IO_BYTES_SENT_OTHER	int64	I/O Execution Bytes Sent Other	<input checked="" type="checkbox"/>	Number of bytes received (other).
SESSION_IO_BYTES_SENT_OVERALL	int64	I/O Execution Bytes Sent	<input checked="" type="checkbox"/>	Number of bytes received overall.
SESSION_IO_BYTES_SENT_READ	int64	I/O Execution Bytes Sent Read	<input checked="" type="checkbox"/>	Number of bytes received for read.
SESSION_IO_BYTES_SENT_WRITE	int64	I/O Execution Bytes Sent Write	<input checked="" type="checkbox"/>	Number of bytes received for write.
SESSION_IO_DURATION_MS_OTHER	int64	I/O Execution Duration Other (ms)	<input checked="" type="checkbox"/>	Total duration for other in milliseconds.
SESSION_IO_DURATION_MS_OVERALL	int64	I/O Execution Duration (ms)	<input checked="" type="checkbox"/>	Total duration overall in milliseconds.
SESSION_IO_DURATION_MS_READ	int64	I/O Execution Duration Read (ms)	<input checked="" type="checkbox"/>	Total duration for read in milliseconds.
SESSION_IO_DURATION_MS_WRITE	int64	I/O Execution Duration Write (ms)	<input checked="" type="checkbox"/>	Total duration for write in milliseconds.
SESSION_IO_EXECUTION_COUNT_OTHER	int64	I/O Execution Count Other	<input checked="" type="checkbox"/>	Number of I/Os executed (other).
SESSION_IO_EXECUTION_COUNT_OVERALL	int64	I/O Execution Count	<input checked="" type="checkbox"/>	Number of I/Os executed overall.
SESSION_IO_EXECUTION_COUNT_READ	int64	I/O Execution Count Read	<input checked="" type="checkbox"/>	Number of I/Os executed for read.
SESSION_IO_EXECUTION_COUNT_WRITE	int64	I/O Execution Count Write	<input checked="" type="checkbox"/>	Number of I/Os executed for write.
SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SLOTBASED_RATE_LIMIT_LENGTH_MS	int64	Slot-based Rate Limit Length (ms)	<input checked="" type="checkbox"/>	Length in ms of a slot-based rate limit.
SLOTBASED_RATE_LIMIT_SLOTS	int32	Slot-based Rate Limit Slots	<input type="checkbox"/>	Number of slots of a slot-based rate limit, null means no limit.
SQL_PREFIX_PARAMETER	string(30)	SQL Prefix Parameter	<input type="checkbox"/>	SQL parameter prefix.
STRING_COMPARISON_IS_CASE_SENSITIVE	boolean	String Comparison is Case-Sensitive	<input checked="" type="checkbox"/>	Whether the provider matches string case-sensitive.
SUPPORTS_COLUMN_FILTERING	boolean	Supports Column Filtering	<input checked="" type="checkbox"/>	Whether column filtering is supported; if true, the provider can filter the resulting columns itself based on a select statement.
SUPPORTS_NATIVE_SCALAR_REQUESTS	boolean	Supports Native Scalar Requests	<input checked="" type="checkbox"/>	Whether the platform supports native scalar requests.
SUPPORTS_NATIVE_SQL	boolean	Supports Native SQL	<input checked="" type="checkbox"/>	Whether the platform supports native SQL.
SUPPORTS_ORDERING	boolean	Supports Ordering	<input checked="" type="checkbox"/>	Whether the provider supports ordering.
SUPPORTS_SIMPLE_FILTER_DELETE	boolean	Supports Simple Filter Delete	<input checked="" type="checkbox"/>	Whether the provider supports delete using simple filters.
SUPPORTS_SIMPLE_FILTER_UPDATE	boolean	Supports Simple Filter Update	<input checked="" type="checkbox"/>	Whether the provider supports update using simple filters.
TECHNICAL_DOCUMENTATION_URL	string(4000)	Technical Documentation (URL)	<input type="checkbox"/>	Technical documentation URL.
TRY_ORDER	int32	Try Order	<input checked="" type="checkbox"/>	Ascending order in which providers are tried.

**SYSTEMPROVIDERSAMPLEQUERIES: Data Dictionary Provider Sample Queries**

Sample queries per registered and licensed provider.

Catalog: DataDictionary

Schema: Invantive

Alias: psy

Label: Provider Sample Queries

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view SYSTEMPROVIDERSAMPLEQUERIES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
PROVIDER_COMMUNITY_EDITION	boolean	Is Community Edition	<input checked="" type="checkbox"/>	Is application software offered for free?
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_DOCUMENTATION_URL	string(4000)	Documentation (URL)	<input type="checkbox"/>	Documentation URL.
PROVIDER_DOWNLOAD_IMPLEMENTATION_URL	string(4000)	Download Implementation URL	<input type="checkbox"/>	Download URL for implementation.
PROVIDER_INFLUENCES_MAXIMUM_NUMBER_JOINS	boolean	Influences Maximum Number of Joins	<input checked="" type="checkbox"/>	Influences maximum number of joins?
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_PRODUCTION_USE_ALLOWED	boolean	Production Use Allowed	<input checked="" type="checkbox"/>	Is production use allowed?
PROVIDER_PUBLIC_DATA	boolean	Is Public Data?	<input checked="" type="checkbox"/>	Is the data offered publicly?
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
PROVIDER_TECHNICAL_DOCUMENTATION_URL	string(4000)	Technical Documentation (URL)	<input type="checkbox"/>	Technical documentation URL.
PROVIDER_UID	guid	Provider UID	<input checked="" type="checkbox"/>	Unique ID of the provider.
SQL_STATEMENT	string	Sample SQL Statement	<input type="checkbox"/>	Sample SQL statement.

**SYSTEMSCHEMAS: Data Dictionary Schemas**

Schemas per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: sma

Label: Schemas

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMSCHEMAS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CATALOG	string	Catalog		Catalog where the views are contained in.
NAME	string	Schema		Schema within the catalog where the tables are contained in.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.

### SYSTEMSQLAREA: Data Dictionary SQL Statements Executed

All SQL statements executed by Invantive's UniversalSQL engine.

Catalog: DataDictionary

Schema: Invantive

Alias: saa

Label: SQL Statements Executed

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMSQLAREA are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
EXECUTIONS	int32	Executions	<input checked="" type="checkbox"/>	Number of executions.
FINGER_PRINT	string(240)	Finger Print	<input checked="" type="checkbox"/>	Unique finger print
FIRST_END_TIME	datetime	First End Time	<input checked="" type="checkbox"/>	Time at which the SQL was first executed (UTC).
FIRST_START_TIME	datetime	First Start Time	<input checked="" type="checkbox"/>	Time at which the SQL was first executed (UTC).



Name	Data Type	Label	Required	Documentation
ID	guid	ID	<input checked="" type="checkbox"/>	Unique ID.
LAST_END_TIME	datetime	Last End Time	<input checked="" type="checkbox"/>	Time at which the SQL was last executed (UTC).
LAST_START_TIME	datetime	Last Start Time	<input checked="" type="checkbox"/>	Time at which the SQL was last executed (UTC).
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
NUMBER_OF_FIELDS	int32	Number of Fields	<input checked="" type="checkbox"/>	Number of fields in the result set.
NUMBER_OF_MANAGED_THREADS	int32	Number of Managed Threads	<input checked="" type="checkbox"/>	Number of managed threads.
NUMBER_OF_REQUESTS	int32	Number of Requests	<input checked="" type="checkbox"/>	Number of requests.
NUMBER_OF_TASKS	int32	Number of Tasks	<input checked="" type="checkbox"/>	Number of tasks.
PARAMETER_VALUES	string(4000)	Parameter Values	<input type="checkbox"/>	Parameter values.
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
ROW_COUNT	int64	Rows	<input checked="" type="checkbox"/>	Number of rows retrieved.
SQL_STATEMENT	string(4000)	SQL Statement	<input checked="" type="checkbox"/>	SQL statement.
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.

### SYSTEMSQLEXECUTIONS: Data Dictionary SQL Executions

All SQL statement executions, executed by Invantive's UniversalSQL engine.

Catalog: DataDictionary

Schema: Invantive

Alias: saa

Label: SQL Executions

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMSQLEXECUTIONS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
BILLING_ID	string	Billing ID	<input type="checkbox"/>	ID for billing.
DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
DURATION_MS	int64	Duration (ms)	<input type="checkbox"/>	Duration (ms).
DURATION_TICKS	int64	Duration (Ticks)	<input type="checkbox"/>	Duration (ticks).
END_TIME_UTC	datetime	End Time	<input type="checkbox"/>	Time at which the SQL fetch was completed (UTC).
GUI_IP_ADDRESS_EXTERNAL	string(240)	GUI External IP Address	<input type="checkbox"/>	External IP address of the GUI application.
ID	guid	ID	<input checked="" type="checkbox"/>	Unique ID of the execution.

Name	Data Type	Label	Required	Documentation
IO_BYTES_RECEIVED	int64	Bytes Received	<input type="checkbox"/>	Number of bytes received using I/O.
IO_BYTES_SENT	int64	Bytes Sent	<input type="checkbox"/>	Number of bytes sent using I/O.
IO_DURATION_MS	int64	I/O Duration (ms)	<input type="checkbox"/>	Duration of I/O (ms).
IO_NUMBER_OF_PARTITIONS	int32	Number of Partitions	<input type="checkbox"/>	Number of partitions accessed through I/O.
IO_ROW_COUNT	int64	I/O Row Count	<input type="checkbox"/>	Number of rows retrieved using I/O.
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
PARAMETER_VALUES	string(4000)	Parameter Values	<input type="checkbox"/>	Parameter values.
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
RESULT_SET_NAME	string(4000)	Result Set Name	<input type="checkbox"/>	Name of result set.
ROW_COUNT	int64	Rows	<input type="checkbox"/>	Number of rows retrieved.
SQL_STATEMENT	string(4000)	SQL Statement	<input checked="" type="checkbox"/>	SQL statement.
START_TIME_UTC	datetime	Start Time	<input type="checkbox"/>	Time at which the SQL fetch was started (UTC).
STATEMENT_FINGER_PRINT	string(240)	Finger Print	<input checked="" type="checkbox"/>	Unique finger print of the SQL statement.
STATEMENT_ID	guid	Statement ID	<input checked="" type="checkbox"/>	Unique ID of the SQL statement.
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.

### SYSTEMSQLEXECUTIONSLEEPS: Data Dictionary SQL Execution Sleeps

Sleeps executed by Invantive's UniversalSQL engine during the execution of SQL statements.

Catalog: DataDictionary

Schema: Invantive

Alias: slp

Label: SQL Execution Sleeps

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMSQLEXECUTIONSLEEPS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ACTUAL_DURATION_MS	int64	Actual Duration (ms)		Actual duration in milliseconds of the sleep.
END_TIME_UTC	datetime	End Time	<input checked="" type="checkbox"/>	Time at which the sleep was completed (UTC).
EXECUTION_ID	guid	SQL Execution ID		ID of the SQL execution.
EXECUTION_STEP_ID	int64	SQL Execution Step ID		ID of the SQL execution step.

Name	Data Type	Label	Required	Documentation
EXPECTED_DURATION_MS	int64	Expected Duration (ms)		Expected duration in milliseconds of the sleep.
ID	int64	ID		Unique ID of the sleep.
MESSAGE_CODE	string(30)	Message Code	<input type="checkbox"/>	Code of the message to indicate the origin.
PARTITION	string(30)	Partition	<input type="checkbox"/>	Specific partition on which the sleep was executed.
START_TIME_UTC	datetime	Start Time	<input checked="" type="checkbox"/>	Time at which the sleep was started (UTC).
STATEMENT_ID	guid	SQL Statement ID		ID of the SQL statement.
TABLE_NAME	string	Table Name	<input type="checkbox"/>	Name of the table.

### SYSTEMSQLEXECUTIONSTEPS: Data Dictionary SQL Execution Steps

Individual processing steps executed by Invantive's UniversalSQL engine during the execution of SQL statements, their relationships and their statistics.

Catalog: DataDictionary

Schema: Invantive

Alias: sep

Label: SQL Execution Steps

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMSQLEXECUTIONSTEPS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ALIAS	string(240)	Alias	<input type="checkbox"/>	Alias of the result set.
BYTES_IN	int64	Bytes In	<input type="checkbox"/>	Number of bytes input.
BYTES_OUT	int64	Bytes Out	<input type="checkbox"/>	Number of bytes output.
COLUMNS_IN	int32	Columns In	<input type="checkbox"/>	Number of columns input.
COLUMNS_OUT	int32	Columns Out	<input type="checkbox"/>	Number of columns output.
DEPTH	int32	Depth	<input checked="" type="checkbox"/>	Depth of the step.
DESCRIPTION	string(240)	Description	<input type="checkbox"/>	Description of the step.
DURATION_CPU_MS	int64		<input type="checkbox"/>	Duration in milliseconds of CPU usage on this step.
DURATION_IO_MS	int64		<input type="checkbox"/>	Duration in milliseconds of the I/O on this step.
DURATION_MS	int64	Duration (ms)	<input type="checkbox"/>	Duration in milliseconds of the step.
DURATION_SLEEP_MS	int64		<input type="checkbox"/>	Duration in milliseconds of the sleep on this step.

Name	Data Type	Label	Required	Documentation
DURATION_TICKS	int64	Duration (Ticks)	<input type="checkbox"/>	Duration in ticks of the step.
END_TIME_UTC	datetime	End Time	<input type="checkbox"/>	Time at which the SQL execution was ended (UTC).
EXECUTION_ID	guid	Execution ID	<input checked="" type="checkbox"/>	Unique ID of the SQL statement execution.
EXECUTION_OPTIONS_ID	guid	Execution Options ID	<input type="checkbox"/>	Execution options ID.
FINGER_PRINT	string(240)	Finger Print	<input checked="" type="checkbox"/>	Unique finger print
ID	int64	ID	<input checked="" type="checkbox"/>	Unique ID of the step.
MANAGED_THREAD_ID	int32	Managed Thread ID	<input type="checkbox"/>	Managed thread ID.
PARAMETERS	string(1000)	Parameters	<input type="checkbox"/>	Parameters of the step.
PARENT_ID	int64	Parent ID	<input type="checkbox"/>	ID of the parent step.
REQUEST_ID	string(60)	Request ID	<input type="checkbox"/>	Request ID.
ROOT_ID	int64	Root ID	<input checked="" type="checkbox"/>	Unique ID of the step at the root of the tree.
ROWS_IN	int64	Rows In	<input type="checkbox"/>	Number of rows input.
ROWS_OUT	int64	Rows Out	<input type="checkbox"/>	Number of rows output.
START_TIME_UTC	datetime	Start Time	<input type="checkbox"/>	Time at which the SQL execution step was started (UTC).
STATEMENT_ID	guid	Statement ID	<input checked="" type="checkbox"/>	Unique ID of the SQL statement.
STEP_DURATION_CLOCK_MS	int64	Step Duration Clock (ms)	<input type="checkbox"/>	Duration in milliseconds of the step (excluding children).
STEP_DURATION_CPU_MS	int64		<input type="checkbox"/>	Duration in milliseconds of CPU usage on this step (excluding children).
STEP_DURATION_IO_MS	int64		<input type="checkbox"/>	Duration in milliseconds of the I/O on this step (excluding children).
STEP_DURATION_SLEEP_MS	int64	Step Duration Sleeping (ms)	<input type="checkbox"/>	Duration in milliseconds of the sleep on this step (excluding children).
TASK_ID	int32	Task ID	<input type="checkbox"/>	Task ID.

### SYSTEMSQLPRECOMPILEEXPRESSIONS: Data Dictionary SQL Pre-compiled Expressions

All compiled SQL statements executed by Invantive's UniversalSQL engine.

Catalog: DataDictionary

Schema: Invantive

Alias: spn

Label: SQL Pre-compiled Expressions

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMSQLPRECOMPILEEXPRESSIONS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CACHE_KEY	string(240)	Cache Key	<input checked="" type="checkbox"/>	Unique cache key.
EXPRESSION	string	Expression	<input type="checkbox"/>	Debug view .
FIRST_SOURCE_CODE	string	First Source Code	<input type="checkbox"/>	First source code.
ID	int64	ID	<input checked="" type="checkbox"/>	Unique ID of the precompiled expression.
INITIAL_REGISTRATION	datetime	Initial Registration	<input checked="" type="checkbox"/>	Initial registration.
LAST_USAGE	datetime	Last Usage	<input checked="" type="checkbox"/>	Last time used.
USAGE_COUNTER	int32	Usage Counter	<input checked="" type="checkbox"/>	Number of times the pre-compiled expression was used.

### SYSTEMTABLECOLUMNS: Data Dictionary Table Columns

Columns per table.

Catalog: DataDictionary

Schema: Invantive

Alias: tcn

Label: Table Columns

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMTABLECOLUMNS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CAN_FILTER_SERVER_SIDE	boolean	Can Filter Server-side	<input checked="" type="checkbox"/>	Whether the column can be filtered on server-side.
CHECK_SPELLING	boolean	Check Spelling	<input checked="" type="checkbox"/>	Whether the column's value should preferably be checked for spelling and grammar errors in a user interface.
CLIENT_SIDE_CACHEABLE	boolean	Table Client-Side Cacheable	<input type="checkbox"/>	Are the contents eligible for caching on the client?
DATABASE_DATA_TYPE	string(240)	Database Data Type	<input type="checkbox"/>	Data type in the database.
DERIVED_VALUE	boolean	Derived Value	<input checked="" type="checkbox"/>	Whether the column contains a derived value (calculated using an expression).
DISPLAY_CONTROL	string(240)	Display Control	<input type="checkbox"/>	Display control for displaying the column's contents.
DISPLAY_IN_FILTER	boolean	Display in Filter	<input checked="" type="checkbox"/>	Whether the column should be included in a search window .

Name	Data Type	Label	Required	Documentation
DISPLAY_IN_LOV	boolean	Display in LOV	<input checked="" type="checkbox"/>	Whether the column should be included in a pick list.
DISPLAY_IN_RECORD	boolean	Display in Record	<input checked="" type="checkbox"/>	Whether the column should be included in a single record view .
DISPLAY_IN_RESULTS	boolean	Display in Results	<input checked="" type="checkbox"/>	Whether the column should be included in a multiple records view .
DISPLAY_LENGTH_AVERAGE	int32	Display Length (Average)	<input type="checkbox"/>	Average length in characters of the contents of the column.
DISPLAY_LENGTH_SD	int32	Display Length (SD)	<input type="checkbox"/>	Standard deviation in characters of the contents of the column.
DISPLAY_ORDER	int32	Display Order	<input type="checkbox"/>	Relative position in which the column should be displayed compared to other columns.
DOCUMENTATION	string(4000)	Documentation	<input type="checkbox"/>	Documentation.
DOTNET_DATA_TYPE	string(240)	.NET Data Type		Data type for .NET.
EXAMPLE	string(4000)	Example	<input type="checkbox"/>	Example.
FETCH_BY_DEFAULT	boolean	Fetch by Default	<input checked="" type="checkbox"/>	Whether this field is fetched by default. True if the column is fetched by default, or false if it is being fetched when accessed.
ID	int32	ID		Unique ID of the column.
INFLUENCES_INSERT	boolean	Influences Insert	<input checked="" type="checkbox"/>	Whether the column's value has an impact on the database's contents.
LABEL_HEADING	string(240)	Label Heading	<input type="checkbox"/>	Optional heading label to be shown before the column's normal label.
LABEL_PLURAL_COMPOSED	string(4000)	Label Plural Composed	<input type="checkbox"/>	Translatable label composed of the prefix and the plural label.
LABEL_PLURAL_POSTFIX	string(240)	Label Plural Postfix	<input type="checkbox"/>	Translatable label postfix in plural.
LABEL_PLURAL_PREFIX	string(240)	Label Plural Prefix	<input type="checkbox"/>	Translatable label prefix in plural.
LABEL_PLURAL	string(4000)	Label Plural	<input type="checkbox"/>	Translatable label in plural.
LABEL_SINGULAR_COMPOSED	string(4000)	Label Singular Composed	<input type="checkbox"/>	Translatable label composed of the prefix and the singular label.
LABEL_SINGULAR_I18N	string(4000)	Translated Label Singular		Translated human-readable label in singular form.
LABEL_SINGULAR_POSTFIX	string(240)	Label Singular Postfix	<input type="checkbox"/>	Translatable label postfix in singular.
LABEL_SINGULAR_PREFIX	string(240)	Label Singular Prefix	<input type="checkbox"/>	Translatable label prefix in singular.
LABEL_SINGULAR	string(4000)	Label Singular		Human-readable label in singular form.
MAX_LENGTH	int32	Maximum Length		Maximum length.
MINIMUM_LENGTH_PADDING	string(240)	Minimum Length Padding	<input checked="" type="checkbox"/>	Which side padding has to be applied if the minimum length is not met.
MINIMUM_LENGTH	int32	Minimum Length	<input checked="" type="checkbox"/>	Minimum required length for a text field.

Name	Data Type	Label	Required	Documentation
MOST_UNQUALIFIED_NAME	string(240)	Most Unqualified Name	<input checked="" type="checkbox"/>	The most unique name ('users' for 'exactonline.crm.users')
NAME	string(240)	Name		Name of the column.
NULLABLE	boolean	Nullable		Whether the value is optional.
POSITION	int32	Position	<input checked="" type="checkbox"/>	Numeric ID of the column.
PRECISION	int16	Precision		Precision.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SCALE	int16	Scale		Scale.
SOURCE_ADDITIONAL_INFO_1	string(4000)	Source Additional Information 1		Additional information, no predefined structure.
SOURCE_ADDITIONAL_INFO_2	string(4000)	Source Additional Information 2		Additional information, no predefined structure.
SOURCE_ADDITIONAL_INFO_3	string(4000)	Source Additional Information 3		Additional information, no predefined structure.
SOURCE_PATH	string(4000)	Source Path		Path of the source of the value.
TABLE_CALL_SAFE_NAME	string(240)	Table Call Safe Name		Name for use within SQL with special characters escaped.
TABLE_CAN_DELETE	boolean	Table Can Delete		Indicator whether you can delete data in this table.
TABLE_CAN_INSERT	boolean	Table Can Insert		Indicator whether you can insert data in this table.
TABLE_CAN_SELECT	boolean	Table Can Select		Indicator whether you can select data in this table.
TABLE_CAN_UPDATE	boolean	Table Can Update		Indicator whether you can update data in this table.
TABLE_CATALOG_NAME	string(240)	Table Catalog		Catalog where the tables are contained in.
TABLE_CREATION_DATE_UTC	datetime	Table Creation Date		Date at which the table was originally created (UTC).
TABLE_DESCRIPTION	string(4000)	Table Description		Description of the contents.
TABLE_DOCUMENTATION	string(4000)	Table Documentation		Documentation of the table or view.
TABLE_ESTIMATED_NUMBER_OF_ROWS	int64	Table Estimated Number of Rows		Estimated number of rows in this table per partition.
TABLE_ESTIMATED_SIZE_BYTES	int64	Table Estimated Size in Bytes		Estimated size in bytes of this table per partition.
TABLE_EXAMPLE	string(4000)	Table Example		Example of the contents.
TABLE_FULL_QUALIFIED_NAME	string(240)	Table Full Qualified Name		Full qualified name.

Name	Data Type	Label	Required	Documentation
TABLE_FULL_TABLE_SCAN_ROW_RETRIEVAL_TOTAL_CLOCK_TIME_MS	int64	Table Full Table Scan Row Retrieval Total Clock Time (ms)		Total clock time spent retrieving data using full table scans.
TABLE_FULL_TABLE_SCAN_ROWS_RETRIEVED	int64	Table Rows Retrieved during Full Table Scans		Total number of rows retrieved using full table scans.
TABLE_FULL_TABLE_SCANS_EXECUTED	int32	Table Number of Full Table Scans Executed		Total number of full table scans executed.
TABLE_IS_PARTITION_SPECIFIC	boolean	Table Is Partition Specific		Indicator whether the contents of this table typically differ per partition.
TABLE_LABEL_LIST	string(4000)	Table Label for List		Label of the table for use in lists.
TABLE_LABEL_PLURAL	string(4000)	Table Label Plural		Label of the table contents in plural form.
TABLE_LABEL_SINGULAR	string(4000)	Table Label Singular		Label of the table contents in singular form.
TABLE_LAST_UPDATE_DATE_UTC	datetime	Table Last Update Date		Date at which the table's structure was last modified (UTC).
TABLE_MEASURED_AVERAGE_ACCESS_LATENCY_MS	int64	Table Measured Average Access Latency (ms)		Measured Average Access Latency in milliseconds.
TABLE_NAME	string(240)	Table Name		Name of the table or view.
TABLE_PARAMETERS	string(4000)	Parameters		Parameters defined on the table.
TABLE_POINT_QUERIES_EXECUTED_TOTAL_CLOCK_TIME_MS	int64	Table Total Clock Time Spent Executing Point Queries (ms)		Total clock time spent retrieving data using point queries.
TABLE_POINT_QUERIES_EXECUTED	int32	Table Number of Point Queries Executed		Number of point queries executed.
TABLE_PRIMARY_KEY_FIELD	string(4000)	Primary Key Columns		Primary key column(s) of the table.
TABLE_ROWS_WRITE_TOTAL_CLOCK_TIME_MS	int64	Table Total Time Spent Writing Rows (ms)		Total clock time spent writing rows in milliseconds.
TABLE_ROWS_WRITTEN	int64	Table Number of Rows Written		Number of rows written.
TABLE_SCHEMA_NAME	string(240)	Table Schema		Schema within the catalog where the table is contained in.
TABLE_SHORT_NAME	string(240)	Table Short Name		Typical alias for the table.
TABLE_STATIC_AVERAGE_ACCESS_LATENCY_MS	int64	Table Static Average Access Latency (ms)		Statically determined average access latency in milliseconds.
TABLE_STATIC_AVERAGE_FULL_SCAN_ROWS_PER_MINUTE	int32	Table Static Average Rows per Minute on Full Scan		Statically determined average number of rows accessible per minute.
TABLE_STATIC_AVERAGE_POINT_QUERY_ROWS_PER_MINUTE	int32	Table Static Average Rows per Minute on Point Query		Statically determined average of points queries throughput per minute.
TABLE_STATIC_AVERAGE_WRITE_ROWS_PER_MINUTE	int32	Table Static Average Rows per Minute Written		Statically determined throughput of written rows per minute.
TABLE_TYPE	string(30)	Table Type		Type, can be either 'view' or 'table'.



Name	Data Type	Label	Required	Documentation
TABLE_VALID	boolean	Table Valid		Whether the structure of the table is valid.
TABLE_WRITES_EXECUTED	int32	Table Number of Writes		Total number of writes executed.
USER_CHANGEABLE	boolean	User Changeable	<input checked="" type="checkbox"/>	Whether the column's value can be changed ever by a human user with sufficient access rights.

### SYSTEMTABLECOLUMNSLIVE: Data Dictionary Live Retrieved Table Columns

Live retrieval of the available columns per table per data container.

Catalog: DataDictionary

Schema: Invantive

Alias: tce

Label: Live Retrieved Table Columns

Documentation:

Availability varies per platform.

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMTABLECOLUMNSLIVE are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CLIENT_SIDE_CACHEABLE	boolean	Table Client-Side Cacheable		Are the contents eligible for caching on the client?
DATA_CONTAINER_ALIAS	string(240)	Data Container Alias	<input type="checkbox"/>	Alias of the data container.
DATABASE_DATA_TYPE	string	Database Data Type		Data type in the database.
DOCUMENTATION	string	Documentation		Documentation.
DOTNET_DATA_TYPE	string	.NET Data Type		Data type for .NET.
GET_VALUE	string	Get Value	<input type="checkbox"/>	Function used for post-processing.
ID	int32	ID		Unique ID of the column.
IS_NEW	boolean	Is New		Is the field new .
LABEL_SINGULAR	string	Label Singular		Human-readable label in singular form.
MAX_LENGTH	int64	Maximum Length		Maximum length.
NAME	string	Name		Name of the column.
NULLABLE	boolean	Nullable		Whether the value is optional.
POST_PROCESS_GET_VALUE	string	Post-process Get Value	<input type="checkbox"/>	Whether the value is completed by Invantive after processing.

Name	Data Type	Label	Required	Documentation
PRECISION	int64	Precision		Precision.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
SCALE	int64	Scale		Scale.
SERVICE_URL	string	URL		URL being accessed
TABLE_CALL_SAFE_NAME	string	Table Call Safe Name		Name for use within SQL with special characters escaped.
TABLE_CAN_DELETE	boolean	Table Can Delete		Indicator whether you can delete data in this table.
TABLE_CAN_INSERT	boolean	Table Can Insert		Indicator whether you can insert data in this table.
TABLE_CAN_SELECT	boolean	Table Can Select		Indicator whether you can select data in this table.
TABLE_CAN_UPDATE	boolean	Table Can Update		Indicator whether you can update data in this table.
TABLE_CATALOG_NAME	string	Table Catalog		Catalog where the tables are contained in.
TABLE_CREATION_DATE_UTC	datetime	Table Creation Date		Date at which the table was originally created (UTC).
TABLE_DESCRIPTION	string	Table Description		Description of the contents.
TABLE_DOCUMENTATION	string	Table Documentation		Documentation of the table or view.
TABLE_ESTIMATED_NUMBER_OF_ROWS	int64	Table Estimated Number of Rows		Estimated number of rows in this table per partition.
TABLE_ESTIMATED_SIZE_BYTES	int64	Table Estimated Size in Bytes		Estimated size in bytes of this table per partition.
TABLE_EXAMPLE	string	Table Example		Example of the contents.
TABLE_IS_NEW	boolean	Table is New		Is the table new.
TABLE_IS_PARTITION_SPECIFIC	boolean	Table Is Partition Specific		Indicator whether the contents of this table typically differ per partition.
TABLE_LABEL_LIST	string	Table Label for List		Label of the table for use in lists.
TABLE_LABEL_PLURAL	string	Table Label Plural		Label of the table contents in plural form.
TABLE_LABEL_SINGULAR	string	Table Label Singular		Label of the table contents in singular form.
TABLE_LAST_UPDATE_DATE_UTC	datetime	Table Last Update Date		Date at which the table's structure was last modified (UTC).
TABLE_NAME	string	Table Name		Name of the table or view.
TABLE_PRIMARY_KEY_FIELD	string	Table Primary key		The primary key field of the table.
TABLE_SCHEMA_NAME	string	Table Schema		Schema within the catalog where the table is contained in.
TABLE_SHORT_NAME	string	Table Short Name		Typical alias for the table.
TABLE_TYPE	string	Table Type		Type, can be either 'view' or 'table'.
TABLE_VALID	boolean	Table Valid		Whether the structure of the table is valid.

**SYSTEMTABLEFUNCTIONPARAMETERS: Data Dictionary Table Function Parameters**

Parameters per table per data container.

Catalog: DataDictionary

Schema: Invantive

Alias: `tfr`

Label: Table Function Parameters

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

## View Columns

The columns of the view `SYSTEMTABLEFUNCTIONPARAMETERS` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DATA_FORMAT	string(60)	Data Format	<input type="checkbox"/>	Data format.
DATABASE_DATA_TYPE	string	Database Data Type		Data type in the database.
DEFAULT_VALUE	string	Default Value	<input type="checkbox"/>	Default value.
DOCUMENTATION	string	Documentation		Documentation.
DOTNET_DATA_TYPE	string	.NET Data Type		Data type for .NET.
ID	int32	ID		Unique ID of the column.
NAME	string	Name		Name of the column.
PRESENCE_REQUIRED	boolean	Presence Required		Whether the presence of a value is required.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SORTING_ORDER	int32	Sort Order		Sorting order of the parameter within the table function.
TABLE_CATALOG_NAME	string	Table Catalog		Catalog where the tables are contained in.
TABLE_FULL_QUALIFIED_NAME	string(240)	Table Full Qualified Name		Full qualified name.
TABLE_NAME	string	Table Name		Name of the table or view .
TABLE_SCHEMA_NAME	string	Table Schema		Schema within the catalog where the table is contained in.
TABLE_TYPE	string	Table Type		Type, can be either 'view' or 'table'.

## SYSTEMTABLEFUNCTIONPARAMETERSLIVE: Data Dictionary Live Retrieve Table Function Parameters

Live retrieval of the available parameters per table per data container.

Catalog: DataDictionary

Schema: Invantive

Alias: tfe

Label: Live Retrieve Table Function Parameters

Documentation:

Availability varies per platform.

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMTABLEFUNCTIONPARAMETERSLIVE are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
DATA_CONTAINER_ALIAS	string(240)	Data Container Alias	<input type="checkbox"/>	Alias of the data container.
DATABASE_DATA_TYPE	string	Database Data Type		Data type in the database.
DEFAULT_VALUE	string	Default Value	<input type="checkbox"/>	Default value.
DOCUMENTATION	string	Documentation		Documentation.
DOTNET_DATA_TYPE	string	.NET Data Type		Data type for .NET.
ID	int32	ID		Unique ID of the column.
IS_NEW	boolean	Is New		Is the parameter new .
NAME	string	Name		Name of the column.
PRESENCE_REQUIRED	boolean	Presence Required		Whether the presence of a value is required.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
SERVICE_URL	string	URL		URL being accessed
SORTING_ORDER	int32	Sort Order		Sorting order of the parameter within the table function.
TABLE_CALL_SAFE_NAME	string	Table Call Safe Name		Name for use within SQL with special characters escaped.
TABLE_CATALOG_NAME	string	Table Catalog		Catalog where the tables are contained in.
TABLE_IS_NEW	boolean	Table is New		Is the table new .
TABLE_NAME	string	Table Name		Name of the table or view .
TABLE_SCHEMA_NAME	string	Table Schema		Schema within the catalog where the table is contained in.
TABLE_TYPE	string	Table Type		Type, can be either 'view' or 'table'.

**SYSTEMTABLES: Data Dictionary Tables**

Tables, function tables and views per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: tbe

Label: Tables

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view SYSTEMTABLES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CACHE_RESULT	boolean	Cache Result	<input type="checkbox"/>	Whether the result of the execution can be cached for the lifetime of the statement.
CALL_SAFE_NAME	string	Call Safe Name		Name for use within SQL with special characters escaped.
CAN_DELETE	boolean	Can Delete		Indicator whether you can delete data in this table.
CAN_INSERT	boolean	Can Insert		Indicator whether you can insert data in this table.
CAN_SELECT	boolean	Can Select		Indicator whether you can select data in this table.
CAN_UPDATE	boolean	Can Update		Indicator whether you can update data in this table.
CATALOG	string	Catalog		Catalog where the tables are contained in.
CLIENT_SIDE_CACHEABLE	boolean	Client-Side Cacheable		Are the contents eligible for caching on the client?
CREATION_DATE_UTC	datetime	Creation Date		Date at which the table was originally created (UTC).
DESCRIPTION	string	Description		Description of the contents.
DOCUMENTATION	string	Documentation		Documentation.
EDI_CLASS_NAME	string(240)	EDI Class Name	<input type="checkbox"/>	EDI: master class name.
EDI_PATH_FROM_MASTER	string(240)	EDI Path from Master	<input type="checkbox"/>	EDI: path from the master instance.
ESTIMATED_NUMBER_OF_ROWS	int64	Estimated Number of Rows		Estimated number of rows in this table per partition.
ESTIMATED_SIZE_BYTES	int64	Estimated Size in Bytes		Estimated size in bytes of this table per partition.
EXAMPLE	string	Example		Example of the contents.
FULL_QUALIFIED_NAME	string	Full Qualified Name		Fully qualified name.

Name	Data Type	Label	Required	Documentation
FULL_SCAN_ROWS	int64	Full Scan (rows)		Number of full scans row processed.
FULL_SCANS_ELAPSED_TIME_MS	int64	Full Scans Elapsed Time (ms)		Time elapsed during full scans (ms).
FULL_SCANS_EXECUTED	int32	Full Scans Executed		Number of full scans executed.
ID	int32	ID		Unique ID of the table.
IS_PARTITION_SPECIFIC	boolean	Is Partition Specific		Indicator whether the contents of this table typically differ per partition.
LABEL_LIST_I18N	string	Translated Label List		Translated label of the table for use in lists.
LABEL_LIST	string	Label for List		Label of the table for use in lists.
LABEL_PLURAL_I18N	string	Translated Label Plural		Label of the table contents in plural form.
LABEL_PLURAL	string	Label Plural		Label of the table contents in plural form.
LABEL_SINGULAR_I18N	string	Translated Label Singular		Translated label of the table contents in singular form.
LABEL_SINGULAR	string	Label Singular		Label of the table contents in singular form.
LAST_UPDATE_DATE_UTC	datetime	Last Update Date		Date at which the table's structure was last modified (UTC).
MEASURED_AVERAGE_ACCESS_LATENCY_MS	int64	Measured Average Access Latency (ms)		Measured average round-trip latency in milliseconds (across cloud: network latency + disks + reception, on SCSI: disks) statically configured.
MEASURED_AVERAGE_FULL_SCAN_ROWS_PER_MINUTE	int32	Measured Average Number Full Scan Rows per Minute		Measured average number of rows that fetched per minute on a full table scan.
MEASURED_AVERAGE_POINT_QUERY_ROWS_PER_MINUTE	int32	Measured Average Number Point Query Rows per Minute		Measured average number of rows processed per minute on point queries.
MEASURED_AVERAGE_WRITE_ROWS_PER_MINUTE	int32	Measured Average Number Rows Written per Minute		Measured average number of rows written per minute.
NAME	string	Name		Name of the table or view.
ODATA_BASE_PATH	string(240)	OData Base Path	<input type="checkbox"/>	OData: base path.
ODATA_FIELD_SELECTION_METHOD	string(240)	OData Field Selection Method	<input type="checkbox"/>	OData: field selection method.
ODATA_METADATA_URL	string(4000)	OData Metadata URL	<input type="checkbox"/>	OData: URL for retrieving metadata.
ODATA_SERVER_SIDE_FILTERS	string	OData Server-side Filters	<input type="checkbox"/>	OData: text representation of server-side filters.
ODATA_SERVICE_URL_FOR_DELETE	string(4000)	OData Service URL for Delete	<input type="checkbox"/>	OData: service URL for deleting data.
ODATA_SERVICE_URL_FOR_INSERT	string(4000)	OData Service URL for Insert	<input type="checkbox"/>	OData: service URL for inserting data.
ODATA_SERVICE_URL_FOR_SELECT	string(4000)	OData Service URL for Select	<input type="checkbox"/>	OData: service URL for retrieving data.

Name	Data Type	Label	Required	Documentation
ODATA_SERVICE_URL_FOR_UPDATE	string(4000)	OData Service URL for Update	<input type="checkbox"/>	OData: service URL for updating data.
POINT_QUERIES_ELAPSED_TIME_MS	int64	Time Spent in Point Queries (ms)		Time elapsed during point queries (ms).
POINT_QUERIES_EXECUTED	int32	Rows through Point Queries		Number of point queries executed.
PRIMARY_KEY_FIELD	string(4000)	Primary Key Columns		Primary key column(s) of the table.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
SCHEMA	string	Schema		Schema within the catalog where the table is contained in.
SHORT_NAME	string	Short Name		Typical alias for the table.
SOAP_ACTION	string(240)	SOAP Action	<input type="checkbox"/>	SOAP: action.
STATIC_AVERAGE_ACCESS_LATENCY_MS	int64	Static Average Access Latency (ms)		Technical average round-trip latency in milliseconds (across cloud: network latency + disks + reception, on SCSI: disks) statically configured.
STATIC_AVERAGE_FULL_SCAN_ROWS_PER_MINUTE	int32	Static Average Rows per Minute on Full Scan		Average number of rows that fetched per minute on a full table scan, statically configured.
STATIC_AVERAGE_POINT_QUERY_ROWS_PER_MINUTE	int32	Static Average Rows per Minute on Point Query		Average number of rows processed per minute on point queries, statically configured.
STATIC_AVERAGE_WRITE_ROWS_PER_MINUTE	int32	Static Average Rows per Minute Written		Average number of rows written per minute, statically configured.
SWAGGER_CONTENT_TYPE	string(240)	Swagger Content Type	<input type="checkbox"/>	SWAGGER: content type.
SWAGGER_DELETE_OPERATION	string(240)	Swagger Delete Operation	<input type="checkbox"/>	SWAGGER: delete operation.
SWAGGER_INSERT_OPERATION	string(240)	Swagger Insert Operation	<input type="checkbox"/>	SWAGGER: insert operation.
SWAGGER_PRE_MAPPING_TABLE_NAME	string(240)	Swagger Pre Mapping Table Name	<input type="checkbox"/>	SWAGGER: pre-mapping table name.
SWAGGER_RESPONSE_SCHEMA	string(240)	Swagger Response Schema	<input type="checkbox"/>	SWAGGER: response schema.
SWAGGER_SELECT_OPERATION	string(240)	Swagger Select Operation	<input type="checkbox"/>	SWAGGER: select operation.
SWAGGER_UPDATE_OPERATION	string(240)	Swagger Update Operation	<input type="checkbox"/>	SWAGGER: update operation.
TABLE_PARAMETERS	string(4000)	Parameters		Parameters defined on the table.

Name	Data Type	Label	Required	Documentation
TYPE	string	Type		Type, can be either 'view' or 'table'.
VALID	boolean	Valid		Whether the structure of the table is valid.
WEBHOOK_KEY_FIELD	string(4000)	Webhook Key Column	<input type="checkbox"/>	Key column on webhook messages.
WEBHOOK_TOPIC	string(4000)	Topic	<input type="checkbox"/>	Webhook topic.
WRITE_ELAPSED_TIME_MS	int64	Elapsed Write Time (ms)		Time elapsed during point queries (ms).
WRITES_EXECUTED	int32	Writes Executed		Number of writes executed.
WRITTEN_ROWS	int64	Rows Written		Number of rows written.
XML_BASE_XPATH	string(240)	Base XPath	<input type="checkbox"/>	XML: XPath expression which forms the root containing all rows.
XML_DEFAULT_NAMESPACE_PREFIX	string(240)	Default Namespace Prefix	<input type="checkbox"/>	XML: default namespace prefix.
XML_NAMED_COMPLEX_TYPE	string(240)	Named Complex Type	<input type="checkbox"/>	XML: name of the complex type.
XML_SERVER_SIDE_FILTERS	string	Server-side Filters	<input type="checkbox"/>	XML: text representation of server-side filters.
XML_SERVICE_URL	string(240)	Service URL	<input type="checkbox"/>	XML: Service URL.
XML_TOPIC	string(240)	Topic	<input type="checkbox"/>	XML: topic or action as known on the remote server. Defaults to Name when not set.
XML_XPATH	string(240)	XPath	<input type="checkbox"/>	XML: XPath expression for the data when specified or the root otherwise. The XPath typically does NOT include the base XPath.

### SYSTEMTIMEZONES: Data Dictionary Timezones

Timezones.

Catalog: DataDictionary

Schema: Invantive

Alias: tze

Label: Timezones

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMTIMEZONES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ABBREVIATION	string(6)	Abbreviation	<input checked="" type="checkbox"/>	Abbreviation.



Name	Data Type	Label	Required	Documentation
COUNTRY_CODE	string(2)	Country Code	<input checked="" type="checkbox"/>	ISO country code.
DST	boolean	Daylight Saving Time	<input checked="" type="checkbox"/>	Has DST.
END_DATE	datetime	End Date	<input type="checkbox"/>	End time (exclusive).
GMT_OFFSET	int32	GMT Offset	<input checked="" type="checkbox"/>	GMT offset.
NAME	string(30)	Name	<input checked="" type="checkbox"/>	Name in English.
START_DATE	datetime	Start Date	<input checked="" type="checkbox"/>	Start time.

### SYSTEMTRANSLATIONS: Data Dictionary Translations

Available translations of a resource code into the current user interface language.

Catalog: DataDictionary

Schema: Invantive

Alias: `t1n`

Label: Translations

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

### View Columns

The columns of the view `SYSTEMTRANSLATIONS` are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
INITIAL_TRANSLATION	string(4000)	Initial Translation	<input type="checkbox"/>	Initial translation of the resource code.
LANGUAGE_CODE	string(240)	Language Code	<input checked="" type="checkbox"/>	Language code.
RESOURCE_CODE	string(240)	Resource Code	<input checked="" type="checkbox"/>	Code of the resource.

### SYSTEMUSERS: Data Dictionary System Users

Known users.

Catalog: DataDictionary

Schema: Invantive

Alias: `usr`

Label: System Users

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table `NativePlatformScalarRequests` to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMUSERS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CODE	string(240)	Code	<input type="checkbox"/>	Code.
COMPANY_ADDRESS_LINE_1	string(240)		<input type="checkbox"/>	Address line 1 of the company of the user.
COMPANY_ADDRESS_LINE_2	string(240)		<input type="checkbox"/>	Address line 2 of the company of the user.
COMPANY_BIC	string(240)	Company BIC	<input type="checkbox"/>	BIC of company of user.
COMPANY_CITY	string(240)	Company City	<input type="checkbox"/>	City of the company of the user.
COMPANY_COC_NUMBER	string(240)	Company Chamber of Commerce Number	<input type="checkbox"/>	CoC number of the company of the user.
COMPANY_DATE_ESTABLISHED	datetime		<input type="checkbox"/>	Date established of the company of the user.
COMPANY_EMAIL_ADDRESS	string(240)	Company Email Address	<input type="checkbox"/>	Email address of the company of the user.
COMPANY_EMPLOYEES	int32		<input type="checkbox"/>	Number of employees of the company of the user.
COMPANY_IBAN	string(240)	Company IBAN	<input type="checkbox"/>	IBAN of company of user.
COMPANY_ID	string(240)	Company ID	<input type="checkbox"/>	ID of company of user.
COMPANY_LEGAL_STRUCTURE	string(240)		<input type="checkbox"/>	Legal structure of the company of the user.
COMPANY_NAME	string(240)	Company Name	<input type="checkbox"/>	Name of company of user.
COMPANY_PAYPAL_IDENTIFIER	string(240)		<input type="checkbox"/>	PayPal identifier of the company of the user.
COMPANY_PHONE	string(240)	Company Phone	<input type="checkbox"/>	Phone number of company of user.
COMPANY_RSIN_NUMBER	string(240)	Company RSIN Number	<input type="checkbox"/>	RSIN number of company of user.
COMPANY_SIRET_NUMBER	string(240)	Company SIRET Number	<input type="checkbox"/>	SIRET number of company of user.
COMPANY_TRADENAMES	string(240)		<input type="checkbox"/>	Tradenames of the company of the user.
COMPANY_VAT_NUMBER	string(240)	Company VAT Number	<input type="checkbox"/>	VAT number of company of user.
COMPANY_WEB_SITE	string(240)	Company Web Site	<input type="checkbox"/>	Website of company of user.
EMAIL_ADDRESS	string(240)	Email Address	<input type="checkbox"/>	Email address.
FIRST_NAME	string(240)	First Name	<input type="checkbox"/>	First name.
GENDER	string(240)	Gender	<input type="checkbox"/>	Gender.
ID	int32	ID	<input checked="" type="checkbox"/>	ID.
LANGUAGE	string(240)	Language	<input type="checkbox"/>	Language.
LAST_LOGON_TIME	datetime	Last Logon	<input type="checkbox"/>	Last Logon Time (UTC).
LAST_NAME	string(240)	Last Name	<input type="checkbox"/>	Last name.
LINKED_IN	string(240)	LinkedIn	<input type="checkbox"/>	LinkedIn account.
LOG_ON_CODE	string(240)	Log On Code	<input type="checkbox"/>	Log on code.
MIDDLE_NAME	string(240)	Middle Name	<input type="checkbox"/>	Middle name.

Name	Data Type	Label	Required	Documentation
MOBILE_NUMBER	string(240)	Mobile Number	<input type="checkbox"/>	Mobile phone number.
NAME	string(240)	Name	<input type="checkbox"/>	Name.
NATIONALITY	string(240)	Nationality	<input type="checkbox"/>	Nationality.
PHONE_NUMBER	string(240)	Phone Number	<input type="checkbox"/>	Phone number.
PICTURE_BLOB	byte[]	Picture	<input type="checkbox"/>	Binary representation of the picture of the user.
PICTURE_MIME_TYPE	string(240)	MIME Type	<input type="checkbox"/>	MIME type of picture of user.
PICTURE_URL	string(240)	Picture (URL)	<input type="checkbox"/>	URL to picture of user.
SKYPE	string(240)	Skype	<input type="checkbox"/>	Skype address.
TITLE	string(240)	Title	<input type="checkbox"/>	Title.
TWITTER	string(240)	Tw itter	<input type="checkbox"/>	Tw itter address.
WEBSITE	string(240)	Website	<input type="checkbox"/>	Personal w ebsite.

### SYSTEMUTC OFFSETS: Data Dictionary UTC Offsets

UTC offsets.

Catalog: DataDictionary

Schema: Invantive

Alias: uot

Label: UTC Offsets

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view SYSTEMUTC OFFSETS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
NAME	string(240)	Name	<input checked="" type="checkbox"/>	Name in English.
OFFSET_MIN	int16	Offset (minutes)	<input checked="" type="checkbox"/>	Offset from UTC in minutes.

### SYSTEMVIEWS: Data Dictionary Database Views

Views per active data container.

Catalog: DataDictionary

Schema: Invantive

Alias: viw

Label: Database Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view SYSTEMVIEWS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CATALOG	string	Catalog		Catalog where the views are contained in.
DESCRIPTION	string	Description		Description.
ID	int32	ID		Unique ID of the view.
NAME	string	Name		Name of the view.
PROVIDER_DATA_CONTAINER_ALIAS	string(4000)	Data Container Alias	<input type="checkbox"/>	Data container alias.
PROVIDER_DATA_CONTAINER_ID	string(4000)	Data Container ID	<input type="checkbox"/>	Data container ID.
PROVIDER_DESCRIPTION	string(16000)	Provider Description	<input checked="" type="checkbox"/>	Provider description.
PROVIDER_INSTANCE_UID	guid	Provider Instance UID	<input checked="" type="checkbox"/>	Unique ID of the provider instance.
PROVIDER_NAME	string(240)	Provider Name	<input checked="" type="checkbox"/>	Name of the provider.
PROVIDER_SHORT_NAME	string(240)	Provider Short Name	<input checked="" type="checkbox"/>	Provider short name.
QUERY	string	SQL Query		SQL query defining the view contents. Only available for non-integrated views.
SCHEMA	string	Schema		Schema within the catalog where the view is contained in.

### TIPSBYTERM: Data Dictionary Tips by Term

Tips by term.

Catalog: DataDictionary

Schema: Invantive

Alias: ttm

Label: Tips by Term

This is a read-only table function. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Parameters of Table Function

The following parameters can be used to control the behaviour of the table function TIPSBYTERM. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a `select \* from table(value1, value2, value3)` on a table with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `select \* from table(name1 => value1, name3 => value3)` on the same table will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
Category	string	<input type="checkbox"/>		Category.
IncludeOtherLanguages	string	<input type="checkbox"/>		Include other tips in other languages than the preferred and fallback language.
MessageCode	string	<input checked="" type="checkbox"/>		Message code to search.
PreferredLanguageCode	string	<input type="checkbox"/>		Preferred language code.
SortingOrder	string	<input type="checkbox"/>		Sorting order, such as 'view s' or 'created'.
Tags	string	<input type="checkbox"/>		List of tags, separated by a comma (',').
UltimateFallbackLanguageCode	string	<input type="checkbox"/>		Fallback language code (optional).

## Columns of Table Function

The columns of the table function TIPSBYTERM are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
CreatedUtc	datetime	Created	<input type="checkbox"/>	
HasAnswer	boolean	Has Answer	<input checked="" type="checkbox"/>	
InteractionCount	int32	Interaction Count	<input checked="" type="checkbox"/>	
IsQuestion	boolean	Is Boolean	<input checked="" type="checkbox"/>	
LanguageCode	string(2)	Language Code	<input checked="" type="checkbox"/>	
ModifiedUtc	datetime	Modified	<input type="checkbox"/>	
ReadMoreUrl	string	URL	<input type="checkbox"/>	
Tags	string	Tags	<input type="checkbox"/>	
Title	string(240)	Title	<input checked="" type="checkbox"/>	

### USERMESSAGES: Data Dictionary User Messages

User messages retrieved from Invantive Customer Service.

Catalog: DataDictionary

Schema: Invantive

Alias: ume

Label: User Messages

Documentation:

Fatal messages are typically never found in this table, since they would already have caused the application to exit.

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view USERMESSAGES are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
ACTION1_TEXT	string(4000)	Action 1 Text	<input type="checkbox"/>	Action 1 text.
ACTION1_URL	string(4000)	Action 1 URL	<input type="checkbox"/>	Action 1 URL.
FATAL_FLAG	boolean	Fatal	<input checked="" type="checkbox"/>	Whether the message should cause an exit of the app.
ID	decimal	ID	<input type="checkbox"/>	Unique ID.
INSTANTIATED_UTC	datetime	Instantiated	<input checked="" type="checkbox"/>	Moment at which the message was registered on local device (UTC).
LABEL	string(240)	Label	<input type="checkbox"/>	Unique label.
LEVEL	string(240)	Level	<input checked="" type="checkbox"/>	Level.
MAX_NUMBER_OF_SHOWS	int32	Maximum Number of Shows	<input type="checkbox"/>	Maximum number of shows of the message.
MESSAGE_CODE	string(60)	Message Code	<input type="checkbox"/>	Message code.
TEXT	string(4000)	Message Text	<input type="checkbox"/>	Text.
TIME_BETWEEN_SHOWS_SEC	int32	Time between Shows (sec)	<input type="checkbox"/>	Minimum time between two shows in seconds.

### USERSETTINGS: Data Dictionary System User Settings

Properties and their values per user.

Catalog: DataDictionary

Schema: Invantive

Alias: usg

Label: System User Settings

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view USERSETTINGS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
LANGUAGE_CODE	string(240)	Language Code	<input type="checkbox"/>	Current User Interface language code.
LAST_LOG_ON_DATE	datetime	Last Log On Date	<input type="checkbox"/>	Date at which the last log on occurred.
USER_EMAIL_ADDRESS	string(240)	User Email Address	<input type="checkbox"/>	User email address.
USER_LOG_ON_CODE	string(240)	User Log On Code	<input type="checkbox"/>	User log on code.
USER_NAME	string(240)	User Name	<input type="checkbox"/>	User name.

### WEEKDAYS: Data Dictionary Days of the Week

Map of days of the full week with 1 representing Monday and 7 representing Sunday.

Catalog: DataDictionary

Schema: Invantive

Alias: wdy

Primary Keys: DAY

Label: Days of the Week

This is a read-only table. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## Table Columns

The columns of the table WEEKDAYS are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
day	int32	Day Number	<input checked="" type="checkbox"/>	Number of the day.
description	string(240)	Description	<input checked="" type="checkbox"/>	

### 3.1.2 Schema: Views

#### 3.1.2.1 Views

##### Test0Rows10000Sec

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view Test0Rows10000Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

### Test0Rows1000Sec

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariant UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view Test0Rows1000Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

### Test0Rows100Sec

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariant UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view Test0Rows100Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.



**Test1000000Rows1000Mb10000Sec**

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view Test1000000Rows1000Mb10000Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

**Test1000000Rows1000Mb1000Sec**

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view Test1000000Rows1000Mb1000Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

**Test1000000Rows1000Mb1Sec**

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

## View Columns

The columns of the view Test1000000Rows1000Mb1Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

### Test10000Rows100Mb100Sec

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariant UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view Test10000Rows100Mb100Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

### Test1000Rows1Mb1000Sec

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invariant UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

### View Columns

The columns of the view Test1000Rows1Mb1000Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

**Test100Rows1Mb100Sec**

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view Test100Rows1Mb100Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

**Test10Rows1000Mb1Sec**

Catalog: DataDictionary

Schema: Views

This is a read-only view. The Data Dictionary API may not support changing the data or the Invantive UniversalSQL driver for Data Dictionary does not cover it. In the latter case, please use the table NativePlatformScalarRequests to upload data to the Data Dictionary API.

**View Columns**

The columns of the view Test10Rows1000Mb1Sec are shown below. Each column has an SQL data type.

Name	Data Type	Label	Required	Documentation
date_generated_utc	datetime	Date Generated (UTC)	<input checked="" type="checkbox"/>	System time at which the row was generated.
random_blob	byte[]	Random BLOB	<input type="checkbox"/>	BLOB with random contents.
value	int32	Value	<input checked="" type="checkbox"/>	Generated value.

**4 Package: aws\_s3****4.1 Procedures****4.1.1 aws\_s3.configure: Data Dictionary AWS S3 utilities**

{res:itgen\_awss3\_configure\_desc}

Documentation:

{res:itgen\_awss3\_configure\_doc}

**Parameters of Procedure**

The following parameters can be used to control the behaviour of the procedure `aws_s3.configure`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
<code>region_endpoint</code>	string	<input checked="" type="checkbox"/>		Region endpoint.
<code>access_key_id</code>	string	<input checked="" type="checkbox"/>		Access key ID.
<code>secret_access_key</code>	string	<input checked="" type="checkbox"/>		Secret access key.

#### 4.1.2 `aws_s3.copy_object`: Data Dictionary AWS S3 utilities

Copy an object.

Documentation:

Copy an object within AWS S3.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.copy_object`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
<code>client</code>	object	<input checked="" type="checkbox"/>		The AWS S3 client object.
<code>source_bucket</code>	string	<input checked="" type="checkbox"/>		Source bucket.
<code>source_key</code>	string	<input checked="" type="checkbox"/>		Source key.
<code>destination_bucket</code>	string	<input checked="" type="checkbox"/>		Destination bucket.
<code>destination_key</code>	string	<input checked="" type="checkbox"/>		Destination key.

Name	Data Type	Required	Default Value	Documentation
storage_class	string	<input type="checkbox"/>		Storage class.
content_type	string	<input type="checkbox"/>		Content type.

#### 4.1.3 aws\_s3.download\_object: Data Dictionary AWS S3 utilites

Download an object.

Documentation:

Download an object from AWS S3.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.download_object`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS S3 client object.
bucket	string	<input checked="" type="checkbox"/>		The name of the bucket that contains the object.
key	string	<input checked="" type="checkbox"/>		Key.

#### 4.1.4 aws\_s3.get\_object\_metadata: Data Dictionary AWS S3 utilites

Get object metadata.

Documentation:

Get AWS S3 object metadata.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.get_object_metadata`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a proced-

ure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS S3 client object.
bucket	string	<input checked="" type="checkbox"/>		The name of the bucket that contains the object.
key	string	<input checked="" type="checkbox"/>		The object key.

#### 4.1.5 `aws_s3.list_buckets`: Data Dictionary AWS S3 utilites

List all buckets.

Documentation:

List all AWS S3 buckets.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.list_buckets`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS S3 client object.

#### 4.1.6 `aws_s3.list_directory_buckets`: Data Dictionary AWS S3 utilites

List all directory buckets.

Documentation:

List all AWS S3 directory buckets.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.list_directory_buckets`. A value must be provided at all times for required paramet-

ers, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS S3 client object.

#### 4.1.7 aws\_s3.list\_objects: Data Dictionary AWS S3 utilites

List objects.

Documentation:

List objects buckets.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.list_objects`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS S3 client object.
bucket	string	<input checked="" type="checkbox"/>		The name of the bucket that contains the object.

#### 4.1.8 aws\_s3.upload\_object: Data Dictionary AWS S3 utilites

Upload an object.

Documentation:

Upload an object within AWS S3.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_s3.upload_object`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS S3 client object.
bucket	string	<input checked="" type="checkbox"/>		The name of the bucket that contains the object.
key	string	<input checked="" type="checkbox"/>		Key.
payload	byte[]	<input checked="" type="checkbox"/>		Binary payload.
storage_class	string	<input type="checkbox"/>		Storage class.
content_type	string	<input type="checkbox"/>		Content type.

## 5 Package: aws\_ses

### 5.1 Procedures

#### 5.1.1 aws\_ses.configure: Data Dictionary AWS Simple Email Service utilities

```
{res:itgen_awsses_configure_desc}
```

Documentation:

```
{res:itgen_awsses_configure_doc}
```

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.configure`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same pro-



cedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
region_endpoint	string	<input checked="" type="checkbox"/>		Region endpoint.
access_key_id	string	<input checked="" type="checkbox"/>		Access key ID.
secret_access_key	string	<input checked="" type="checkbox"/>		Secret access key.

### 5.1.2 aws\_ses.create\_template: Data Dictionary AWS Simple Email Service utilities

Create a template.

Documentation:

Create a template consisting of subject, text and HTML which can be expanded and filled using template data upon send.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.create_template`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
template_name	string	<input checked="" type="checkbox"/>		Name of the template.
subject	string	<input checked="" type="checkbox"/>		Subject template for the emails generated.
html_body	string	<input checked="" type="checkbox"/>		HTML template for the emails generated.
text_body	string	<input checked="" type="checkbox"/>		Text template for the emails generated.

### 5.1.3 aws\_ses.delete\_template: Data Dictionary AWS Simple Email Service utilities

Delete a template.

Documentation:

Delete an existing template.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.delete_template`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
template_name	string	<input checked="" type="checkbox"/>		Name of the template.

### 5.1.4 `aws_ses.get_rendered_template_email`: Data Dictionary AWS Simple Email Service utilities

Get a rendered template email.

Documentation:

Get the rendered result of a templated email.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.get_rendered_template_email`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
template_name	string	<input checked="" type="checkbox"/>		Name of the template.
template_data	string	<input checked="" type="checkbox"/>		Data for the template. Required when a template name is specified.

### 5.1.5 aws\_ses.send\_email: Data Dictionary AWS Simple Email Service utilities

Send an email.

Documentation:

Send an email.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.send_email`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
from_email	string	<input checked="" type="checkbox"/>		Email address used as sender.
to_email	string	<input checked="" type="checkbox"/>		Email address used as addressee.
subject	string	<input checked="" type="checkbox"/>		Subject of email.
html_body	string	<input type="checkbox"/>		Body of email in HTML-format.
text_body	string	<input type="checkbox"/>		Body of email in text format.

### 5.1.6 aws\_ses.send\_raw\_email: Data Dictionary AWS Simple Email Service utilities

Send a raw email.

Documentation:

Send a raw email.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.send_raw_email`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a proced-

ure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
from_email	string	<input checked="" type="checkbox"/>		Email address used as sender.
to_email	string	<input checked="" type="checkbox"/>		Email address used as addressee.
raw_content	string	<input checked="" type="checkbox"/>		Raw email contents.

### 5.1.7 `aws_ses.send_templated_email`: Data Dictionary AWS Simple Email Service utilities

Send a templated email.

Documentation:

Send a templated email.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.send_templated_email`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
from_email	string	<input checked="" type="checkbox"/>		Email address used as sender.
to_email	string	<input checked="" type="checkbox"/>		Email address used as addressee.
template_name	string	<input checked="" type="checkbox"/>		Name of the template.
template_data	string	<input checked="" type="checkbox"/>		Data for the template. Required when a template name is specified.

### 5.1.8 aws\_ses.update\_template: Data Dictionary AWS Simple Email Service utilities

Update a template.

Documentation:

Update a template consisting of subject, text and HTML which can be expanded and filled using template data upon send.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `aws_ses.update_template`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
client	object	<input checked="" type="checkbox"/>		The AWS SES client object.
template_name	string	<input checked="" type="checkbox"/>		Name of the template.
subject	string	<input checked="" type="checkbox"/>		Subject template for the emails generated.
html_body	string	<input checked="" type="checkbox"/>		HTML template for the emails generated.
text_body	string	<input checked="" type="checkbox"/>		Text template for the emails generated.

## 6 Package: cloud\_http

### 6.1 Procedures

#### 6.1.1 cloud\_http.append\_line\_to\_response\_body\_text: Data Dictionary Cloud HTTP utilities

Append text line to body

Documentation:

Append the text supplied as parameter to the HTML body output, followed by a linefeed.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.append_line_to_response_body_text`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
txt	string	<input type="checkbox"/>		Text to append to response body with a linefeed.

### 6.1.2 `cloud_http.append_to_response_body_text`: Data Dictionary Cloud HTTP utilities

Append text line

Documentation:

Append the text supplied as parameter to the HTML body output.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.append_to_response_body_text`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
txt	string	<input type="checkbox"/>		Text to append to response body.

### 6.1.3 `cloud_http.get_absolute_path_to_module`: Data Dictionary Cloud HTTP utilities

Get path to module

Documentation:

Gets an URL path for the root URL of the module.

### 6.1.4 `cloud_http.get_pool_identity`: Data Dictionary Cloud HTTP utilities

Get pool identity

Documentation:

Gets the pool identity.

#### 6.1.5 cloud\_http.get\_request\_body\_binary: Data Dictionary Cloud HTTP utilities

Get request body as binary value

Documentation:

Get the BLOB supplied as body.

#### 6.1.6 cloud\_http.get\_request\_body\_text: Data Dictionary Cloud HTTP utilities

Get request body as text value

Documentation:

Get the text supplied as body.

#### 6.1.7 cloud\_http.get\_request\_form\_file\_content\_disposition: Data Dictionary Cloud HTTP utilities

Get value of the form file content disposition

Documentation:

Gets the first form file content disposition of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_file_content_disposition`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

#### 6.1.8 cloud\_http.get\_request\_form\_file\_content\_type: Data Dictionary Cloud HTTP utilities

Get value of the form file content type

Documentation:

Gets the first form file content type of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_file_content_type`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

### 6.1.9 `cloud_http.get_request_form_file_contents`: Data Dictionary Cloud HTTP utilities

Get binary value of the form file contents

Documentation:

Gets the first form file contents of the key specified as text value parameter. For UTF-8, use `to_char` to change to text.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_file_contents`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

### 6.1.10 `cloud_http.get_request_form_file_header_value`: Data Dictionary Cloud HTTP utilities

Get value of the form file header

Documentation:



Gets the first form file header value of the key and header key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_file_header_value`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.
headerKey	string	<input checked="" type="checkbox"/>		Name of header key.

### 6.1.11 cloud\_http.get\_request\_form\_file\_length: Data Dictionary Cloud HTTP utilities

Get value of the form file length

Documentation:

Gets the first form file length of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_file_length`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

### 6.1.12 cloud\_http.get\_request\_form\_file\_name: Data Dictionary Cloud HTTP utilities

Get value of the form file name

Documentation:

Gets the first form file name of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_file_name`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

### 6.1.13 cloud\_http.get\_request\_form\_value: Data Dictionary Cloud HTTP utilities

Get value of request form element

Documentation:

Gets the first form value of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_form_value`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

### 6.1.14 cloud\_http.get\_request\_header\_value: Data Dictionary Cloud HTTP utilities

Get value of request header

Documentation:

Gets the first header value of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_header_value`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Key to get value for.

### 6.1.15 cloud\_http.get\_request\_query\_parameter\_value: Data Dictionary Cloud HTTP utilities

Get value of query parameter

Documentation:

Gets the first query string value of the key specified as text value parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.get_request_query_parameter_value`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Name of key.

#### 6.1.16 cloud\_http.get\_request\_relative\_path: Data Dictionary Cloud HTTP utilities

Get relative path of request

Documentation:

Gets the path from the URL relative to the module specification.

#### 6.1.17 cloud\_http.get\_request\_relative\_path\_to\_module: Data Dictionary Cloud HTTP utilities

Get relative path to module of request

Documentation:

Gets an URL path for the current page to the root URL of the module.

#### 6.1.18 cloud\_http.get\_request\_url: Data Dictionary Cloud HTTP utilities

Get request URL

Documentation:

Gets the full URL of the request.

#### 6.1.19 cloud\_http.set\_response\_body\_binary: Data Dictionary Cloud HTTP utilities

Set response body to binary value

Documentation:

Set/replace the body output to the BLOB supplied as parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_response_body_binary`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
bin	byte[]	<input type="checkbox"/>		Contents of response body in binary format.

### 6.1.20 cloud\_http.set\_response\_body\_text: Data Dictionary Cloud HTTP utilities

Set response body to text value

Documentation:

Set/replace the body output by the text supplied as parameter.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_response_body_text`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
txt	string	<input type="checkbox"/>		Contents of response body in text format.

### 6.1.21 cloud\_http.set\_response\_content\_type: Data Dictionary Cloud HTTP utilities

Set Content-Type

Documentation:

Sets the Content-Type header to the text value specified.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_response_content_type`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
contentType	string	<input checked="" type="checkbox"/>		Content type of output.

### 6.1.22 cloud\_http.set\_response\_header\_value: Data Dictionary Cloud HTTP utilities

Set response header value

Documentation:

Sets the first header value of the response to the value provided.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_response_header_value`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input checked="" type="checkbox"/>		Key to assign a value to.
value	string	<input type="checkbox"/>		Value of key.

### 6.1.23 cloud\_http.set\_response\_status\_code: Data Dictionary Cloud HTTP utilities

Set response status code

Documentation:

Sets the HTTP response status code.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_response_status_code`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
statusCode	int16	<input checked="" type="checkbox"/>		HTTP status code for response.

#### 6.1.24 cloud\_http.set\_template\_step\_name: Data Dictionary Cloud HTTP utilities

Set template step name

Documentation:

Sets the step name to the text value supplied as parameter. Only used with Invantive Cloud HTML templates. The step is shown in Invantive Cloud after the module name in the blue title bar.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_template_step_name`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
name	string	<input checked="" type="checkbox"/>		Human-readable name of step.

#### 6.1.25 cloud\_http.set\_use\_template: Data Dictionary Cloud HTTP utilities

Whether to use templates

Documentation:

Sets whether to embed the output in the Invantive Cloud HTML template based upon the boolean supplied as parameter. Defaults to false.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_http.set_use_template`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
use	boolean	<input checked="" type="checkbox"/>		Whether to use templates.

## 7 Package: cloud\_metadata

### 7.1 Procedures

#### 7.1.1 cloud\_metadata.execute\_module: Data Dictionary Cloud HTTP metadata utilities

Run module

Documentation:

Runs a module, specified by application code, module code and parameter values. Output is ignore.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_metadata.execute_module`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
application_code	string	<input type="checkbox"/>		Application code; defaults to current application.
module_code	string	<input checked="" type="checkbox"/>		Module code.
parameter_1	string	<input type="checkbox"/>		Value for parameter #1.
parameter_2	string	<input type="checkbox"/>		Value for parameter #2.
parameter_3	string	<input type="checkbox"/>		Value for parameter #3.
parameter_4	string	<input type="checkbox"/>		Value for parameter #4.
parameter_5	string	<input type="checkbox"/>		Value for parameter #5.
parameter_6	string	<input type="checkbox"/>		Value for parameter #6.
parameter_7	string	<input type="checkbox"/>		Value for parameter #7.
parameter_8	string	<input type="checkbox"/>		Value for parameter #8.
parameter_9	string	<input type="checkbox"/>		Value for parameter #9.
parameter_10	string	<input type="checkbox"/>		Value for parameter #10.



### 7.1.2 cloud\_metadata.execute\_module\_returning\_binary: Data Dictionary Cloud HTTP metadata utilities

Retrieve binary output of a module

Documentation:

Runs another module, specified by application code, module code and parameter values. Returns the output as binary.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_metadata.execute_module_returning_binary`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
application_code	string	<input type="checkbox"/>		Application code; defaults to current application.
module_code	string	<input checked="" type="checkbox"/>		Module code.
parameter_1	string	<input type="checkbox"/>		Value for parameter #1.
parameter_2	string	<input type="checkbox"/>		Value for parameter #2.
parameter_3	string	<input type="checkbox"/>		Value for parameter #3.
parameter_4	string	<input type="checkbox"/>		Value for parameter #4.
parameter_5	string	<input type="checkbox"/>		Value for parameter #5.
parameter_6	string	<input type="checkbox"/>		Value for parameter #6.
parameter_7	string	<input type="checkbox"/>		Value for parameter #7.
parameter_8	string	<input type="checkbox"/>		Value for parameter #8.
parameter_9	string	<input type="checkbox"/>		Value for parameter #9.
parameter_10	string	<input type="checkbox"/>		Value for parameter #10.

### 7.1.3 cloud\_metadata.execute\_module\_returning\_text: Data Dictionary Cloud HTTP metadata utilities

Retrieve text output of a module

Documentation:

Runs another module, specified by application code, module code and parameter values. Returns the output as text.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `cloud_metadata.execute_module_returning_text`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
application_code	string	<input type="checkbox"/>		Application code; defaults to current application.
module_code	string	<input checked="" type="checkbox"/>		Module code.
parameter_1	string	<input type="checkbox"/>		Value for parameter #1.
parameter_2	string	<input type="checkbox"/>		Value for parameter #2.
parameter_3	string	<input type="checkbox"/>		Value for parameter #3.
parameter_4	string	<input type="checkbox"/>		Value for parameter #4.
parameter_5	string	<input type="checkbox"/>		Value for parameter #5.
parameter_6	string	<input type="checkbox"/>		Value for parameter #6.
parameter_7	string	<input type="checkbox"/>		Value for parameter #7.
parameter_8	string	<input type="checkbox"/>		Value for parameter #8.
parameter_9	string	<input type="checkbox"/>		Value for parameter #9.
parameter_10	string	<input type="checkbox"/>		Value for parameter #10.

## 8 Package: dbms\_audit

### 8.1 Procedures

#### 8.1.1 dbms\_audit.register\_event: Data Dictionary Audit utilities

Register an audit event.

Documentation:

Output the text supplied as parameter as a system message.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_audit.register_event`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
message_code	string	<input type="checkbox"/>		Code of the message.
txt	string	<input checked="" type="checkbox"/>		Text of audit event.
natural_key	string	<input type="checkbox"/>		Natural key.
reference_key	string	<input type="checkbox"/>		Key of referenced record.
reference_table_code	string	<input type="checkbox"/>		Table code of referenced record.
gui_action	string	<input type="checkbox"/>		GUI action.
gui_module	string	<input type="checkbox"/>		GUI module name and version (obsoleted).
gui_module_name	string	<input type="checkbox"/>		GUI module name.
gui_module_version	string	<input type="checkbox"/>		GUI module version.
partition	string	<input type="checkbox"/>		Partition code.
provider_name	string	<input type="checkbox"/>		Name of the provider.
session_id	string	<input type="checkbox"/>		Session ID.
data_container_id	string	<input type="checkbox"/>		Data container ID.
message_uid	guid	<input type="checkbox"/>		Non-unique message ID.
sql_statement	string	<input type="checkbox"/>		SQL statement.
application_name	string	<input type="checkbox"/>		Application name and version.
application_user	string	<input type="checkbox"/>		Application user.

## 9 Package: dbms\_exception

### 9.1 Procedures

#### 9.1.1 dbms\_exception.add\_data: Data Dictionary Exception utilities

Add data to the current exception.

Documentation:

Extend the parameters of the current exception by a key/value pair.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_exception.add_data`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
key	string	<input type="checkbox"/>		Key to store value with.
value	string	<input checked="" type="checkbox"/>		Value to add to exception.

## 10 Package: dbms\_lock

### 10.1 Procedures

#### 10.1.1 dbms\_lock.sleep: Data Dictionary Locking utilities

Sleep some time

Documentation:

Postpone execution for the number of seconds indicated. The method accepts a single parameter indicating the number of seconds as a decimal with sub-second resolution.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_lock.sleep`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
seconds	decimal	<input checked="" type="checkbox"/>		Number of seconds to sleep.

## 11 Package: dbms\_output

### 11.1 Procedures

#### 11.1.1 dbms\_output.put: Data Dictionary Print output utilities

Print text

Documentation:

Output the text supplied as parameter. An optional second parameter is the text label of the channel.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_output.put`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
txt	string	<input type="checkbox"/>		Text to print.
channel	string	<input type="checkbox"/>		Label of the channel.

### 11.1.2 dbms\_output.put\_line: Data Dictionary Print output utilities

Print line of text

Documentation:

Output the text supplied as parameter and add a linefeed. An optional second parameter is the text label of the channel.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_output.put_line`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
txt	string	<input type="checkbox"/>		Text to print.
channel	string	<input type="checkbox"/>		Label of the channel.

## 12 Package: dbms\_sync

### 12.1 Procedures

#### 12.1.1 dbms\_sync.diff: Data Dictionary Sync utilities

Determine difference

Documentation:

Get the difference between the left and right record.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_sync.diff`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
left_record	object	<input type="checkbox"/>		The left row .
right_record	object	<input type="checkbox"/>		The right row .

## 13 Package: dbms\_trace

### 13.1 Procedures

#### 13.1.1 dbms\_trace.put\_line: Data Dictionary Trace logging utilities

Print line of logging

Documentation:

Output the text supplied as parameter to trace logging.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `dbms_trace.put_line`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a proced-

ure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with `begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
txt	string	<input type="checkbox"/>		Text to print to trace logging.
message_code	string	<input type="checkbox"/>		Message code.
natural_key	string	<input type="checkbox"/>		Natural key.
duration_ms	int32	<input type="checkbox"/>		Duration to register (in milliseconds).
quantity	int64	<input type="checkbox"/>		Quantity.
provider_name	string	<input type="checkbox"/>		Name of provider.
table_name	string	<input type="checkbox"/>		Table name to associate with trace message.
partition_code	string	<input type="checkbox"/>		Partition code.
provider_alias	string	<input type="checkbox"/>		Alias of provider.
parameter_1	string	<input type="checkbox"/>		Additional parameter 1.
parameter_2	string	<input type="checkbox"/>		Additional parameter 2.
parameter_3	string	<input type="checkbox"/>		Additional parameter 3.
parameter_4	string	<input type="checkbox"/>		Additional parameter 4.
parameter_5	string	<input type="checkbox"/>		Additional parameter 5.
parameter_6	string	<input type="checkbox"/>		Additional parameter 6.
parameter_7	string	<input type="checkbox"/>		Additional parameter 7.
parameter_8	string	<input type="checkbox"/>		Additional parameter 8.
parameter_9	string	<input type="checkbox"/>		Additional parameter 9.
parameter_10	string	<input type="checkbox"/>		Additional parameter 10.

### 13.1.2 dbms\_trace.register\_exception: Data Dictionary Trace logging utilities

Register exception

Documentation:

Register the current exception on Invantive Cloud, even when suppressed by an exception block. Only valid within an exception block.

## 14 Package: dcr\_metadata

### 14.1 Procedures

#### 14.1.1 dcr\_metadata.get\_partitions: Data Dictionary Data container metadata package

Get all partitions.

Documentation:

List all partitions.

## 15 Package: excel

### 15.1 Procedures

#### 15.1.1 excel.add\_worksheet: Data Dictionary Excel package

Add worksheet

Documentation:

Add a worksheet to an Excel workbook.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `excel.add_worksheet`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
w orkbook	object	<input checked="" type="checkbox"/>		Reference to Excel w orkbook.
name	string	<input checked="" type="checkbox"/>		Valid name for Excel w orksheet.

#### 15.1.2 excel.autofit\_worksheet: Data Dictionary Excel package

Autofit the columns in a sheet

Documentation:

Autofit the columns in a sheet.

### Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `excel.autofit_worksheet`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.



Name	Data Type	Required	Default Value	Documentation
w orksheet	object	<input checked="" type="checkbox"/>		Reference to Excel w orksheet.

### 15.1.3 excel.close: Data Dictionary Excel package

Close the workbook

Documentation:

Close the workbook.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure excel.close. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
w orkbook	object	<input checked="" type="checkbox"/>		Reference to Excel w orkbook.

### 15.1.4 excel.export\_to\_xlsx: Data Dictionary Excel package

Export to XLSX

Documentation:

Export the current contents of an Excel workbook as an XLSX-file.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure excel.export\_to\_xlsx. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same pro-

cedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
w orkbook	object	<input checked="" type="checkbox"/>		Reference to Excel w orkbook.

### 15.1.5 excel.fill\_using\_query: Data Dictionary Excel package

Store query results in workbook

Documentation:

Store the output of a query in an Excel workbook.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `excel.fill_using_query`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
w orksheet	object	<input checked="" type="checkbox"/>		Reference to Excel w orkbook.
query	string	<input checked="" type="checkbox"/>		Invantive SQL query w hich returns intended contents.
addHeader	boolean	<input type="checkbox"/>	True	Whether to add a header row .
startPosition	string	<input type="checkbox"/>	A1	Intended top-left start position in Excel single cell notation.
dataRangeName	string	<input type="checkbox"/>		Name of named range to create for the contents.

### 15.1.6 excel.new: Data Dictionary Excel package

Create new workbook

Documentation:

Create an empty Excel workbook which can be filled using the excel package.

### 15.1.7 excel.set\_cell\_contents: Data Dictionary Excel package

Set the contents of a cell

Documentation:

Set the contents of a cell.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `excel.set_cell_contents`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
worksheet	object	<input checked="" type="checkbox"/>		Reference to Excel worksheet.
cell	string	<input checked="" type="checkbox"/>		Name of Excel cell to assign value to.
value	object	<input type="checkbox"/>		Value for cell.

### 15.1.8 excel.set\_worksheet\_name: Data Dictionary Excel package

Set worksheet name

Documentation:

Set the worksheet's name.

## Parameters of Procedure

The following parameters can be used to control the behaviour of the procedure `excel.set_worksheet_name`. A value must be provided at all times for required parameters, but optional parameters in general do not need to have a value and the execution will default to a pre-defined behaviour. Values can be specified by position and by name. In both cases, all parameters not specified will be evaluated using their default values.

Value specification by position is done by listing all values from the first to the last needed value. For example: a ``begin package.procedure(value1, value2, value3); end`` on a procedure with four parameters will use the default value for the fourth parameter and the specified values for the first three.

Value specification by name is done by listing all values that require a value. For example with ``begin package.procedure(name1 => value1, name3 => value3); end`` on the same procedure will use the default values for the second and fourth parameters and the specified values for the first and third.

Name	Data Type	Required	Default Value	Documentation
worksheet	object	<input checked="" type="checkbox"/>		Reference to Excel worksheet.
name	string	<input checked="" type="checkbox"/>		Valid name for Excel worksheet.



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# *invantive* the **SQL** company

Invantive B.V.  
Biesteweg 11  
3849 RD Hierden  
the Netherlands

Tel: +31 88 00 26 500  
Fax: +31 84 22 58 178  
info@invantive.com  
invantive.com

IBAN NL25 BUNQ 2098 2586 07  
Chamber of Industry and Commerce  
13031406  
VAT NL812602377B01  
RSIN 8122602377  
Managing Director: Guido Leenders  
Registered office: Roermond