23.0

Data Cache Data Model

for use with Invantive SQL

invantive
the SQL company

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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 Cache

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.

Data replication driver for all Invantive SQL platforms.

The Data Cache driver covers 18 tables and 430 columns.

Data Cache Clients

Invantive SQL is available on many user interfaces ("clients" in traditional server-client paradigma). All Invantive SQL 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 Cache does not support partitioning.

An introduction into the concepts of Invantive SQL such as databases, data containers and partitioning can be found in the Invantive SQL 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.

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 Cache the comparison of two texts is case sensitive by default.

Changes and bug fixes on the Data Cache SQL driver can be found in the release notes. Get access to the community through the Data Cache section of the Invantive forums.

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

Alias: `cache`

Recommended alias: `idc`

More technical documentation as provided by the supplier of Data Cache on the native connection used can be found at https://documentation.invantive.com/2017R2/data-cache-data-model/webhelp/index.html.

Updated 17-08-2023 08:37 using Invantive SQL version 22.1.262-BETA+4120.

2 SQL Driver Attributes for Data Cache

The SQL driver for Data Cache has many attributes that can be finetuned to improve handling in scenarios with unreliable network connections to the Data Cache server or high

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volumes of data. Also, many drivers have driver-specific attributes to finetune actual behaviour or handle data not matching specifications.

The Data Cache 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 Cache 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%\invantive` 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 Cache 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	✓	✓	✓	
application-prefix-facts	A prefix applied after the environment prefix to every facts table, index and view.	Data Cache	dcd_	✓			
application-prefix-history	A prefix applied after the environment prefix to every history table, index and view.	Data Cache	dcs_	✓			
application-prefix-repository	A prefix applied after the environment prefix to every repository table, index and view.	Data Cache	dc_	✓			

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
backing-bulk-insert-page-size-bytes	Approximate maximum size in bytes of page when bulk inserting on backing database.	Data Cache		✓	✓	✓	
backing-bulk-insert-page-size-rows	Number of rows to insert per page when bulk inserting on backing database.	Data Cache		✓	✓	✓	
backing-bulk-insert-timeout-sec	Number of seconds after which a bulk insert on backing database times out.	Data Cache	3600	✓	✓	✓	
backing-command-timeout-sec	Number of seconds after which a command on backing database times out.	Data Cache	3600	✓	✓	✓	
backing-connection-string	The connection string for the backing database.	Data Cache		✓		✓	
backing-force-case-sensitive-identifiers	Consider identifiers on the backing database as case-sensitive independent of the platform capabilities.	Data Cache	False	✓	✓	✓	
backing-forced-casing-identifiers	Forced casing of identifiers on the backing database. Choose from Unset, Lower, Upper and Mixed.	Data Cache	Unset	✓	✓	✓	
backing-maximum-length-identifiers	Non-default maximum length on the backing database in characters of identifier names.	Data Cache		✓	✓	✓	
backing-maximum-number-of-pooled-connections	Maximum number of concurrent pooled connections on backing database.	Data Cache		✓	✓	✓	
backing-maximum-sleep-acquire-pooled-connection-ms	Maximum time in ms to wait for acquiring a free connection from a pool of connections on backing database.	Data Cache	300000	✓	✓	✓	
backing-maximum-sleep-acquire-unpooled-connection-ms	Maximum time in ms to wait for acquire a free connection when there is no connection pooling on backing database.	Data Cache	600000	✓	✓	✓	
backing-minimum-connection-timeout-sec	Minimum number of seconds after which a newly requested connection on backing database times out.	Data Cache	300	✓	✓	✓	
backing-preferred-number-of-pooled-connections	Preferred number of concurrent pooled connections on backing database.	Data Cache		✓	✓	✓	
backing-provider	Name of the Invantive connector for the backing database.	Data Cache		✓		✓	
backing-sql-server-connect-retry-count	Number of connect retries on connection failed on the backing SQL Server database (SQL Server only).	Data Cache	60	✓	✓	✓	
backing-sql-server-connect-retry-	Interval between connect retries on connection failed on the backing	Data Cache	15	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
interval-sec	SQL Server database (SQL Server only).						
backing-standardize-identifiers	Rewrite all identifiers on the backing database to the preferred standards as configured by standardize-identifiers-casing and maximum-length-identifiers.	Data Cache	True	✓	✓	✓	
backing-standardize-identifiers-casing	Rewrite all identifiers on the backing database to the platform-specific recommended standard casing when changing a data model on a case-dependent platform.	Data Cache	True	✓	✓	✓	
beta-compress-facts-on-disk	Whether to compress facts in the disk cache.	Data Cache	True	✓	✓	✓	
beta-encrypt-facts-on-disk	Whether to encrypt facts in the disk cache.	Data Cache	True	✓	✓	✓	
beta-store-facts-in-database	Whether to store facts in the database containing the repository.	Data Cache	True	✓	✓	✓	
beta-store-facts-on-disk	Whether to store facts on the disk cache.	Data Cache	False	✓	✓	✓	
beta-use-facts-in-database	Whether to use facts in the database cache.	Data Cache	True	✓	✓	✓	
beta-use-facts-on-disk	Whether to use facts in the disk cache.	Data Cache	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	✓	✓	✓	
cache-folder	Folder to store Data Cache cache files in.	Data Cache	C:\Users\gle3.WS212\Invantive\Cache\datacache	✓	✓	✓	
default-skip-client-side-cacheable	Whether to skip client-side cacheable tables by default.	Data Cache	True	✓	✓	✓	
default-use-ods	Whether to use the Operational Data Store when no hint is specified.	Data Cache	True	✓	✓	✓	
delete-number-table-partition-versions-per-group	Maximum number of table partition versions selected in the IN-clause for a delete of facts.	Data Cache	50	✓	✓	✓	
development-use-http-disk-cache	Whether to allow use of the disk cache for platform HTTP requests.	Data Cache	False	✓	✓		
drop-backlog-factor	Maximum ratio between number of versions dropped and new versions loaded on refresh.	Data Cache		✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
environment-prefix-all	A prefix applied to repository, facts and history database tables, indexes and views.	Data Cache		✓			
environment-prefix-facts	A prefix applied to every facts table, index and view.	Data Cache		✓			
environment-prefix-history	A prefix applied to every history table, index and view.	Data Cache		✓			
environment-prefix-logical-view	A prefix applied to every logical view.	Data Cache		✓			
environment-prefix-repository	A prefix applied to every repository table, index and view.	Data Cache		✓			
event-log-entries-delete-page-size-rows	Number of rows to delete per batch on maintaining event log entries.	Data Cache	1000	✓	✓	✓	
event-log-memory-cache-flush-interval-sec	Maximum interval in seconds between flushes of in-memory cache of event log entries to database.	Data Cache	15	✓			
event-log-memory-cache-size	Size of in-memory cache of event log entries before they are written to the database.	Data Cache	100	✓			
facts-delete-page-size-characters	Number of characters to delete per batch on maintaining orphaned facts.	Data Cache	10000000	✓	✓	✓	
facts-delete-page-size-rows	Number of rows to delete per batch on purging orphaned facts during repository upgrade or maintenance.	Data Cache		✓	✓	✓	
facts-insert-page-size-rows	Number of rows to insert per batch on maintaining facts.	Data Cache		✓	✓	✓	
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		✓	✓	✓	
forced-casing-logical-view-column-name	Forced casing of logical view column names. Choose from Unset, Lower, Upper and Mixed.	Data Cache	Unset	✓	✓	✓	
forced-casing-logical-view-name	Forced casing of logical view names. Choose from Unset, Lower, Upper and Mixed.	Data Cache	Unset	✓	✓	✓	
forwarded-incoming-messages-delete-max-runtime-sec	Maximum runtime of purge forwarded incoming messages in seconds.	Data Cache	3600	✓	✓	✓	
forwarded-incoming-messages-delete-page-size-rows	Number of rows to delete per batch on maintaining forwarded incoming messages.	Data Cache	10000	✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
garbage-collection-physical-memory-load-threshold	Percentage of physical memory load above which a full garbage collection is run after replication.	Data Cache	80	✓	✓	✓	
garbage-collection-replication-interval-count	itgen_pae_garbage_collection_replication_minimum_interval_count_desc	Data Cache	100	✓	✓	✓	
garbage-collection-replication-minimum-interval-sec	itgen_pae_garbage_collection_replication_minimum_interval_sec_desc	Data Cache	30	✓	✓	✓	
invantive-sql-compress-sparse-arrays	Whether to compress sparse arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-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	✓	✓	✓	
invantive-sql-forward-filters-to-data-containers	Whether to forward filters to data containers.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-byte-arrays	Whether to share the memory used by identical byte arrays in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-share-strings	Whether to share the memory used by identical strings in result sets during compression.	SQL Engine V1	True	✓	✓	✓	
invantive-sql-shuffle-fetch-results-data-containers	Whether to shuffle results fetched from data containers.	SQL Engine V1	False	✓	✓	✓	
invantive-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		✓	✓	✓	
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	✓	✓	✓	
max-delete-facts-parallel	Maximum number of parallel deletes on facts tables.	Data Cache	8	✓	✓	✓	
maximum-length-identifiers	Non-default maximum length in characters of identifier names.	Shared		✓	✓	✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
maximum-length-logical-view-column-name	Maximum length of logical view column names.	Data Cache		✓	✓	✓	
maximum-length-logical-view-name	Maximum length of logical view names.	Data Cache		✓	✓	✓	
max-messages-per-customer-service-request	Maximum number of messages to download from Customer Service per request.	Data Cache	10000	✓	✓	✓	
max-percentage-trickle-loading	Maximum percentage of incoming messages versus known rows to use trickle loading with. When exceeded, reverts to copy approach.	Data Cache	2,5	✓	✓	✓	
max-refreshes-parallel	Maximum number of parallel refreshes.	Data Cache	32	✓	✓	✓	
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	✓	✓	✓	
orphaned-facts-delete-page-size-rows	Number of rows to delete per batch on maintaining orphaned facts.	Data Cache	10000	✓	✓	✓	
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	✓	✓	✓	
purge-interval-event-log-entries-minutes	Interval in minutes between completed purges of ancient event log entries.	Data Cache	60	✓	✓	✓	
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	✓	✓	✓	
retention-event-log-entries-days	Retention of event log entries in days.	Data Cache	35	✓	✓	✓	
session-terminated-threshold-hours	Number of hours after start a session is considered terminated.	Data Cache	168	✓	✓	✓	
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		✓		✓	

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Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
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	✓	✓	✓	
update-number-table-partition-versions-per-group	Maximum number of table partition versions selected in the IN-clause for an update of metadata.	Data Cache	1000	✓	✓	✓	
upgrade-force-execute	Whether to force execution of possible upgrade steps, even when there are no reasons to perform an upgrade.	Data Cache	False	✓			
upgrade-force-repository-version-start	Specifies the repository version to start upgrade from when specified.	Data Cache		✓			
upgrade-force-specials	Execute special operations before the repository is opened.	Data Cache		✓			

3 dc_data_containers: Data Cache Data Containers

Bundle of one or more partitions with data in tables associated with a physical source.

Catalog: Cache

Schema: Invantive

Alias: `dcr`

Primary Keys: dcr_id

Label: Data Containers

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

View Columns

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

Name	Data Type	Label	Required	Documentation
dcr_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.

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Name	Data Type	Label	Required	Documentation
dcr_created_by	string(60)	Created by	☑	Who created the record.
dcr_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
dcr_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
dcr_description	string(5)	Description	☐	Description.
dcr_fragment_code	string(5)	Table Name Fragment Code	☑	Random sequence of characters used to compose the name of the facts table w ith.
dcr_id	decimal	ID	☑	Unique identifier.
dcr_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
dcr_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
dcr_name	string(240)	Name	☑	Name of the data container.
dcr_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
dcr_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
dcr_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
dcr_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
dcr_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
dcr_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.

4 dc_event_log: Data Cache Events

An action by the software and is typically used to aid analysis of what happened when.

Catalog: Cache

Schema: Invantive

Alias: `deg`

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Primary Keys: deg_id

Label: Events

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

View Columns

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

Name	Data Type	Label	Required	Documentation
dcr_id	decimal	Data Container ID	☐	Reference to a data container.
dcr_label	string(240)	Data Container Label	☐	Reference to a data container.
deg_category_code	string(30)	Category Code	☐	Code of category uniquely typing this event.
deg_created_at	string(60)	Created in	☑	The code of the function in the modules table from w ithin w hich the user created the record. This value w ill never change after creation of the record.
deg_created_by	string(60)	Created by	☑	Who created the record.
deg_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
deg_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
deg_date_started	datetime	Start Date	☐	Date/time at w hich the action leading to this event started.
deg_free_field_1	string(240)	Free text column 1	☐	Unstructured information related to the event.
deg_free_field_2	string(240)	Free text column 2	☐	Unstructured information related to the event.
deg_free_field_3	string(240)	Free text column 3	☐	Unstructured information related to the event.
deg_free_field_4	string(240)	Free text column 4	☐	Unstructured information related to the event.
deg_free_field_5	string(240)	Free text column 5	☐	Unstructured information related to the event.
deg_id	decimal	ID	☑	Unique identifier.
deg_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
deg_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.

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Name	Data Type	Label	Required	Documentation
deg_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
deg_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
deg_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
deg_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
deg_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
deg_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.
deg_txt	string(240)	Text	☑	Text of message.
ptn_id	decimal	Partition ID	☐	Reference to a partition.
ptn_label	string(240)	Partition Label	☐	Reference to a partition.
tbe_id	decimal	Table ID	☐	Reference to a table.
tbe_label	string(240)	Table Label	☐	Reference to a table.
tpn_id	decimal	Table Partition Version ID	☐	Reference to a table partition version.
tpn_label	string(240)	Table Partition Version Label	☐	Reference to a table partition version.
tpt_id	decimal	Table Partition ID	☐	Reference to a table partition.
tpt_label	string(240)	Table Partition Label	☐	Reference to a table partition.

5 dc_fact_size_statistics: Data Cache Fact Size Statistics

Statistics on the size of facts.

Catalog: Cache

Schema: Invantive

Alias: `fsc`

Label: Fact Size Statistics

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

View Columns

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

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Name	Data Type	Label	Required	Documentation
dcr_name	string(240)	Data Container ID	☑	Name of the data container.
fsc_active_count_partitions	decimal	Size of Active Versions (partitions)	☑	Total number of partitions in active versions.
fsc_active_size_characters_m	decimal	Size of Active Versions (million characters)	☑	Total number of characters in millions in active versions.
fsc_active_size_rows_m	decimal	Size of Active Versions (million rows)	☑	Total number of rows in millions in active versions.
fsc_deleted_count_partitions	decimal	Size of Deleted Versions (partitions)	☑	Total number of partitions in deleted versions.
fsc_deleted_size_characters_m	decimal	Size of Obsoleted Versions (million characters)	☑	Total number of characters in millions in deleted versions.
fsc_deleted_size_rows_m	decimal	Size of Deleted Versions (million rows)	☑	Total number of rows in millions in deleted versions.
fsc_obsoleted_count_partitions	decimal	Size of Obsoleted Versions (partitions)	☑	Total number of partitions in obsoleted versions.
fsc_obsoleted_size_characters_m	decimal	Size of Obsoleted Versions (million characters)	☑	Total number of characters in millions in obsoleted versions.
fsc_obsoleted_size_rows_m	decimal	Size of Obsoleted Versions (million rows)	☑	Total number of rows in millions in obsoleted versions.
fsc_total_count_partitions	decimal	Size of All Versions (partitions)	☑	Total number of partitions.
fsc_total_size_characters_m	decimal	Size of All Versions (million characters)	☑	Total number of characters in millions.
fsc_total_size_rows_m	decimal	Size of All Versions (million rows)	☑	Total number of rows in millions.
tbe_facts_table_name	string(30)	Facts Table Name	☑	Name of the facts table with last downloaded data for this table.
tbe_full_qualified_name	string(240)	Full Qualified Name	☑	Full qualified name of the table to be downloaded.

6 dc_ime_statistics: Data Cache Incoming Message Statistics

Statistics of incoming messages received over time.

Catalog: Cache

Schema: Invantive

Alias: `imc`

Primary Keys: imc_id

Label: Incoming Message Statistics

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

View Columns

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

Name	Data Type	Label	Required	Documentation
imc_action	char	Action	☐	Code of triggering action in source system w here 'U' stands for 'Update', 'D' for 'Delete' and 'I' for 'Insert'.
imc_appl_partition_c	string(100)	Partition	☐	Unique textual identifier of the partition w ithin the data container.
imc_cnt	decimal	Count	☑	Number of messages in this statistical group.
imc_created_at	string(60)	Created in	☑	The code of the function in the modules table from w ithin w hich the user created the record. This value w ill never change after creation of the record.
imc_created_by	string(60)	Created by	☑	Who created the record.
imc_data_container_id	string(240)	Data Container ID	☐	Unique textual identifier of the data container.
imc_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
imc_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
imc_date_received_first	datetime	Date Received First	☑	First receipt moment at Customer Service.
imc_date_received_last	datetime	Date Received Last	☑	Last receipt moment at Customer Service.
imc_dow nload_cnt	decimal	Dow nload Count	☑	Number of dow nloads in this statistical group.
imc_id	decimal	ID	☑	Unique identifier.
imc_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
imc_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
imc_object_entity	string(240)	Object Entity	☐	Name of the object entity in the source system.

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Name	Data Type	Label	Required	Documentation
imc_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
imc_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
imc_provider_name	string(240)	Provider Name	☐	Name of the Invantive connector for w hich the message w as received.
imc_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
imc_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
imc_subobject_entity	string(240)	Subobject Entity	☐	Sub-object, such as line w ith header.
imc_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
imc_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.

7 dc_incoming_messages: Data Cache Incoming Messages

Trickle loading events received from Customer Service for seeding new tables on basis of deltas.

Catalog: Cache

Schema: Invantive

Alias: `ime`

Primary Keys: ime_id

Label: Incoming Messages

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

View Columns

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

Name	Data Type	Label	Required	Documentation
ime_action	char	Action	☐	Code of triggering action in source system w here 'U' stands for 'Update', 'D' for 'Delete' and 'I' for 'Insert'.
ime_appl_client_id	string(240)	Application Client ID	☐	OAuth client ID of the application.

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Name	Data Type	Label	Required	Documentation
ime_appl_partition_c	string(100)	Partition	☐	Unique textual identifier of the partition within the data container.
ime_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
ime_created_by	string(60)	Created by	☑	Who created the record.
ime_cs_message_key	string	Customer Service Message Key	☑	Customer Service Message Key.
ime_cs_ref_key	decimal	Customer Service Reference Key	☑	Customer Service ID.
ime_data_container_id	string(240)	Data Container ID	☐	Unique textual identifier of the data container.
ime_date_created	datetime	Created at	☑	The system time in UTC at which the record was created. This value will never change after creation of the record.
ime_date_downloaded	datetime	Download Date	☑	Date/time at which the message was downloaded from Customer Service.
ime_date_forwarded	datetime	Date Forwarded	☐	Moment at which the message was processed.
ime_date_modified	datetime	Updated at	☑	The system time in UTC at which the record was last updated. This value will change for every mutation of the record.
ime_date_occurred_server_local	datetime	Date Occurred Server Local Time	☐	Occurrence at the originating server (server local time).
ime_date_occurred	datetime	Date Occurred	☐	Occurrence at the originating server (UTC).
ime_date_received	datetime	Date Received	☑	Receipt moment at Customer Service.
ime_description	string(240)	Description	☐	Description of the event in human-readable language.
ime_forwarded_flag	char	Forwarded	☑	Whether the message was processed.
ime_id	decimal	ID	☑	Unique identifier.
ime_iiid	string(240)	IIID	☐	Invantive Installation ID.
ime_ip_address_external_sender	string(240)	IP Address External Sender	☑	Internet-side IP-address of the message sender.
ime_iuid	string(240)	IUID	☐	Invantive User ID. A physical person can have multiple IUIDs.
ime_license_contract_code	string(240)	License Contract Code	☐	Code of the Invantive license contract for which the message was registered.
ime_message_key	string(240)	Message Key	☐	A unique ID of the message as presented by the sender.
ime_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from within which the user last updated the record.

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Name	Data Type	Label	Required	Documentation
				This value will change for every mutation of the record.
ime_modified_by	string(60)	Updated by	☑	The name of the user in the users table whom last updated the record. This value will change for every update of the record.
ime_object_entity	string(240)	Object Entity	☐	Name of the object entity in the source system.
ime_object_key	string(240)	Object Key	☐	Unique identifier of the object entity in the source system.
ime_object_url	string(2000)	Object URL	☐	Browser URL to display the object in the source system.
ime_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from which it originated. It is commonly used to group records for later validation in an application control.
ime_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from which it originated.
ime_provider_name	string(240)	Provider Name	☐	Name of the Invantive connector for which the message was received.
ime_receiving_url	string(2000)	Receiving URL	☑	URL on which the request was received including query string.
ime_session_created	string(240)	Session Created	☑	The ID of the session which created the record. This value will not change after insert.
ime_session_id	string(240)	Session ID	☐	Unique ID of the Invantive session that registered the message.
ime_session_modified	string(240)	Session Updated	☑	The ID of the session which last updated the record.
ime_subobject_entity	string(240)	Subobject Entity	☐	Sub-object, such as line with header.
ime_subobject_key	string(240)	Subobject Key	☐	Unique identifier of the sub-object entity in the source system.
ime_table_full_qualified_name	string(240)	Full Qualified Table Name	☐	Full name of the target table.
ime_text_payload	string	Text of Payload	☐	Full contents of the payload received by a HTTP POST.
ime_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction which created the record.
ime_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction which last updated the record.
ime_type	string(30)	Type	☑	Currently always 'WEBHOOK'.
ime_verb	string(30)	HTTP Verb	☐	HTTP verb used to register the message.

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8 dc_my_incoming_messages: Data Cache My Incoming Messages

Events received from Customer Service for custom business processes.

Catalog: Cache

Schema: Invantive

Alias: `mie`

Primary Keys: mie_id

Label: My Incoming Messages

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

View Columns

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

Name	Data Type	Label	Required	Documentation
mie_action	char	Action	☐	Code of triggering action in source system where 'U' stands for 'Update', 'D' for 'Delete' and 'I' for 'Insert'.
mie_appl_client_id	string(240)	Application Client ID	☐	OAuth client ID of the application.
mie_appl_partition_c	string(100)	Partition	☐	Unique textual identifier of the partition within the data container.
mie_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
mie_created_by	string(60)	Created by	☑	Who created the record.
mie_cs_message_key	string	Customer Service Message Key	☑	Customer Service Message Key.
mie_cs_ref_key	decimal	Customer Service Reference Key	☑	Customer Service ID.
mie_data_container_id	string(240)	Data Container ID	☐	Unique textual identifier of the data container.
mie_date_created	datetime	Created at	☑	The system time in UTC at which the record was created. This value will never change after creation of the record.
mie_date_downloaded	datetime	Download Date	☑	Date/time at which the message was downloaded from Customer Service.
mie_date_modified	datetime	Updated at	☑	The system time in UTC at which the record was last updated. This value will change for every mutation of the record.

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Name	Data Type	Label	Required	Documentation
mie_date_occurred_server_local	datetime	Date Occurred Server Local Time	☐	Occurrence at the originating server (server local time).
mie_date_occurred	datetime	Date Occurred	☐	Occurrence at the originating server (UTC).
mie_date_received	datetime	Date Received	☑	Receipt moment at Customer Service.
mie_description	string(240)	Description	☐	Description of the event in human-readable language.
mie_forwarded_flag	char	Forwarded	☑	Whether it was processed.
mie_id	decimal	ID	☑	Unique identifier.
mie_iiid	string(240)	IIID	☐	Invantive Installation ID.
mie_ip_address_external_sender	string(240)	IP Address External Sender	☑	Internet-side IP-address of the message sender.
mie_iuid	string(240)	IUID	☐	Invantive User ID. A physical person can have multiple IUIDs.
mie_license_contract_code	string(240)	License Contract Code	☐	Code of the Invantive license contract for which the message was registered.
mie_message_key	string(240)	Message Key	☐	A unique ID of the message as presented by the sender.
mie_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from within which the user last updated the record. This value will change for every mutation of the record.
mie_modified_by	string(60)	Updated by	☑	The name of the user in the users table whom last updated the record. This value will change for every update of the record.
mie_object_entity	string(240)	Object Entity	☐	Name of the object entity in the source system.
mie_object_key	string(240)	Object Key	☐	Unique identifier of the object entity in the source system.
mie_object_url	string(2000)	Object URL	☐	Browser URL to display the object in the source system.
mie_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from which it originated. It is commonly used to group records for later validation in an application control.
mie_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from which it originated.
mie_provider_name	string(240)	Provider Name	☐	Name of the Invantive connector for which the message was received.
mie_receiving_url	string(2000)	Receiving URL	☑	URL on which the request was received including query string.
mie_session_created	string(240)	Session Created	☑	The ID of the session which created the record. This value

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Name	Data Type	Label	Required	Documentation
				will not change after insert.
mie_session_id	string(240)	Session ID	☐	Unique ID of the Invantive session that registered the message.
mie_session_modified	string(240)	Session Updated	☑	The ID of the session which last updated the record.
mie_subobject_entity	string(240)	Subobject Entity	☐	Sub-object, such as line with header.
mie_subobject_key	string(240)	Subobject Key	☐	Unique identifier of the sub-object entity in the source system.
mie_text_payload	string	Text of Payload	☐	Full contents of the payload received by a HTTP POST.
mie_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction which created the record.
mie_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction which last updated the record.
mie_type	string(30)	Type	☑	Currently always 'WEBHOOK'.
mie_verb	string(30)	HTTP Verb	☐	HTTP verb used to register the message.

9 dc_partitions: Data Cache Partitions

A unique set of data in tables, typically for a combination of legal entity and a physical source defined by a data container.

Catalog: Cache

Schema: Invantive

Alias: `ptn`

Primary Keys: ptn_id

Label: Partitions

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

View Columns

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

Name	Data Type	Label	Required	Documentation
dcr_id	decimal	Data Container ID	☑	Reference to a data container.
ptn_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
ptn_created_by	string(60)	Created by	☑	Who created the record.

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Name	Data Type	Label	Required	Documentation
ptn_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
ptn_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
ptn_description	string(5)	Description	☐	Description.
ptn_fragment_code	string(5)	Table Name Fragment Code	☑	Random sequence of characters used to compose the name of the facts table w ith.
ptn_id	decimal	ID	☑	Unique identifier.
ptn_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
ptn_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
ptn_name	string(240)	Name	☑	Name.
ptn_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
ptn_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
ptn_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
ptn_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
ptn_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
ptn_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.
ptn_view _code	string(10)	View Name Fragment Code	☐	Characters embedded in a partition logical view name to indicate that the view contains the data for this partition.

10 dc_physical_statistics: Data Cache Physical Statistics

Statistics on the physical storage.

Catalog: Cache

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Schema: Invantive

Alias: `psc`

Label: Physical Statistics

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

View Columns

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

Name	Data Type	Label	Required	Documentation
index_space_mb	decimal	Index Space (MB)	☑	Estimated storage allocated in MB by indexes of physical table.
row_count	decimal	Rows	☑	Estimated number of rows in physical table.
table_name	string(240)	Table Name	☑	Name of physical table.
table_space_mb	decimal	Table Space (MB)	☑	Estimated storage allocated in MB by physical table.

11 dc_repository_contents: Data Cache Repository Contents

Contents of the tables in the repository for support purposes.

Catalog: Cache

Schema: Invantive

Alias: `rct`

Primary Keys: stg_id

Label: Repository Contents

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

View Columns

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

Name	Data Type	Label	Required	Documentation
rct_contents	string	Contents	☐	Contents in JSON format of the table.
rct_error_message	string	Error Message	☐	Error message that occurred during retrieval of the contents.
rct_file_name_recommended	string(240)	Recommended File Name	☑	Recommended file name.

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Name	Data Type	Label	Required	Documentation
rct_success	boolean	Success	☑	Whether the contents w as successfully retrieved.
rct_table_name	string(240)	Table Name	☑	Table from w hich the contents w ere taken.

12 dc_sessions: Data Cache Sessions

Current and historical sessions connecting to the repository.

Catalog: Cache

Schema: Invantive

Alias: `ssn`

Primary Keys: ssn_id

Label: Sessions

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

View Columns

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

Name	Data Type	Label	Required	Documentation
ssn_application_name	string(240)	Application Name	☑	Name and version of the application connected.
ssn_cnt_heart_beat	decimal		☑	Number of times the last heart beat w as updated.
ssn_code	string(240)	Code	☑	Unique code.
ssn_computer_manufacturer	string(240)		☐	Computer system manufacturer.
ssn_computer_model	string(240)		☐	Computer system model.
ssn_cpu_time_sec	decimal		☑	CPU time spent by the process during the lifetime of the session.
ssn_created_at	string(60)	Created in	☑	The code of the function in the modules table from w ithin w hich the user created the record. This value w ill never change after creation of the record.
ssn_created_by	string(60)	Created by	☑	Who created the record.
ssn_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
ssn_date_end	datetime		☐	Moment at w hich the session ended (UTC).
ssn_date_last_heart_beat	datetime		☐	Moment at w hich the last heart beat w as registered for the session (UTC).

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Name	Data Type	Label	Required	Documentation
ssn_date_modified	datetime	Updated at	☑	The system time in UTC at which the record was last updated. This value will change for every mutation of the record.
ssn_date_start	datetime	Start Date	☑	Moment at which the session started (UTC).
ssn_event_modified	string(30)		☐	Code of last event that modified the row.
ssn_id	decimal	ID	☑	Unique identifier.
ssn_iiid	string(240)	IIID	☑	Invantive installation ID.
ssn_ip_address_external	string(240)		☑	External IP address.
ssn_ip_address_internal	string(240)		☑	Internal IP address.
ssn_iuid	string(240)	IUID	☑	Invantive user ID.
ssn_license_contract_code	string(240)	License Contract Code	☑	License contract code.
ssn_license_key_identifier	string(240)	License Key Identifier	☑	License key ID.
ssn_machine_name	string(240)	Machine Name	☑	Name of the machine on which the session is running.
ssn_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from within which the user last updated the record. This value will change for every mutation of the record.
ssn_modified_by	string(60)	Updated by	☑	The name of the user in the users table whom last updated the record. This value will change for every update of the record.
ssn_nk	string(240)	Natural Key	☑	Natural key.
ssn_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from which it originated. It is commonly used to group records for later validation in an application control.
ssn_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from which it originated.
ssn_physical_memory_bytes	int64		☐	Physical memory in bytes.
ssn_physical_memory_load	int32		☐	Physical memory load (%).
ssn_pool_identity	string(240)	Pool Identity	☐	Pool identity.
ssn_process_arguments	string(2000)		☐	Arguments of the process running the session.
ssn_process_filename	string(240)	Executable	☑	Executable started to create the process running the session.
ssn_process_label	string(240)		☑	Identification of the running process on the operating system.
ssn_process_owner	string(240)		☑	Owner on the operating system of the process in which the session is running.

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Name	Data Type	Label	Required	Documentation
ssn_session_created	string(240)	Session Created	☑	The ID of the session which created the record. This value will not change after insert.
ssn_session_modified	string(240)	Session Updated	☑	The ID of the session which last updated the record.
ssn_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction which created the record.
ssn_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction which last updated the record.
ssn_working_directory	string(240)		☑	Working directory of the process running the session.

13 dc_settings: Data Cache Settings

Central configuration of the software consisting of settings and defaults for configuration of other objects such as tables.

Catalog: Cache

Schema: Invantive

Alias: `stg`

Primary Keys: stg_id

Label: Settings

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

View Columns

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

Name	Data Type	Label	Required	Documentation
stg_allow_auto_upgrade_flag	string(1)	Allow Auto Upgrade	☑	Whether the repository data model must be checked for an upgrade (and executed when deemed necessary) on every new connection to the backing database.
stg_auto_upgrade_once_flag	string(1)	Auto Upgrade Once	☑	Whether the repository data model must be checked for an upgrade (and executed when deemed necessary) on the next connection established to the backing database.
stg_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
stg_created_by	string(60)	Created by	☑	Who created the record.

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Name	Data Type	Label	Required	Documentation
stg_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
stg_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
stg_dummy	string(1)	Dummy	☑	Placeholder for a unique value to ensure uniqueness and at most one row in this table.
stg_environment_id	string(30)		☑	Unique environment ID.
stg_id	decimal	ID	☑	Unique identifier.
stg_index_facts_tables_flag	char	Index Facts Tables	☑	Default w hether indexes on facts tables must be created and maintained.
stg_index_history_tables_flag	char	Index History Tables	☑	Default w hether indexes on history tables must be created and maintained.
stg_lv_overall_active_flag	char	Maintain Overall Logical View s	☑	Default w hether overall logical view s must be created and maintained.
stg_lv_overall_view _name_postfix	string(240)	Postfix Overall Logical View Name	□	Default postfix for the name of the overall logical view .
stg_lv_overall_view _name_prefix	string(240)	Prefix Overall Logical View Name	□	Default prefix for the name of the overall logical view .
stg_lv_ptn_active_flag	char	Maintain Partition Logical View s	☑	Default w hether partition logical view s must be created and maintained.
stg_lv_ptn_view _name_postfix	string(240)	Postfix Partition Logical View Name	□	Default postfix for the name of a partition logical view .
stg_lv_ptn_view _name_prefix	string(240)	Prefix Partition Logical View Name	□	Default prefix for the name of a partition logical view .
stg_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
stg_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
stg_orig_system_group	string(240)	Original System Group	□	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
stg_orig_system_reference	string(240)	Original System Reference	□	Reference for identifying the record on the system from w hich it originated.
stg_sec_before_droppable	decimal	Seconds before Droppable	☑	Number of seconds after becoming obsolete before a table

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Name	Data Type	Label	Required	Documentation
				partition-specific facts table is droppable.
stg_sec_before_obsolete	decimal	Seconds before Obsolete	☑	Number of seconds after dow nload before the dow nloaded data is considered obsolete.
stg_sec_metadata_is_droppable	decimal	Seconds before Metadata Droppable	☑	Number of seconds after the data became obsolete before the metadata is droppable.
stg_sec_retention_forw arded_inc oming_messages	decimal	Seconds Retention Forw arded Incoming Messages	☑	Number of seconds after an incoming messages has been forw arded before becoming eligible for a delete.
stg_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
stg_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
stg_sql_engine_version	string(30)	SQL Engine Version	☐	Version of the SQL engine used to update the repository data model.
stg_token	string(2000)	Token	☐	Token for authentication to dow nload messages from the Customer Service.
stg_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
stg_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.

14 dc_table_partition_versions: Data Cache Table Partition Versions

Data set replicated from a table for a specific partition at a specific moment in time.

Catalog: Cache

Schema: Invantive

Alias: `tpn`

Primary Keys: tpn_id

Label: Table Partition Versions

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

View Columns

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

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Name	Data Type	Label	Required	Documentation
ptn_id	decimal	Partition ID	☑	Reference to a partition.
tbe_id	decimal	Table ID	☑	Reference to a table.
tpn_count_rows_deleted	decimal	Count of Deleted Rows	☐	Number of rows deleted compared to previous table partition version.
tpn_count_rows_delta	decimal	Delta of Row Count	☐	Number of rows changed compared to previous table partition version.
tpn_count_rows_inserted	decimal	Count of Inserted Rows	☐	Number of rows inserted compared to previous table partition version.
tpn_count_rows_previous	decimal	Previous Row Count	☐	Number of rows in the previous table partition version.
tpn_count_rows_updated	decimal	Count of Updated Rows	☐	Number of rows updated compard to previous table partition version.
tpn_count_rows	decimal	Rows	☐	Number of rows in the table partition version.
tpn_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
tpn_created_by	string(60)	Created by	☑	Who created the record.
tpn_data_file_name_path	string(500)	Data File Name Path	☐	Storage location of the data on disk.
tpn_date_becomes_droppable	datetime	Date Becomes Droppable	☐	Date/time at which the data in the facts table may first be deleted (UTC).
tpn_date_becomes_obsolete	datetime	Date Becomes Obsolete	☐	Date/time at which the data in the facts table may first be declared obsolete (UTC).
tpn_date_created	datetime	Created at	☑	The system time in UTC at which the record was created. This value will never change after creation of the record.
tpn_date_last_fresh_check	datetime	Date Last Freshness Check	☐	Date/time at which the facts table was last checked for freshness (UTC).
tpn_date_last_got_created	datetime	Date Last Got Created	☐	Date/time at which the facts table was last created (UTC).
tpn_date_last_got_dropped	datetime	Date Last Got Dropped	☐	Date/time at which the data in the facts table was declared deleted (UTC).
tpn_date_last_got_obsoleted	datetime	Date Last Got Obsoleted	☐	Date/time at which the data in the facts table was declared obsolete (UTC).
tpn_date_last_got_ready	datetime	Date Last Got Ready	☐	Date/time at which the facts table was last made available for use (UTC).
tpn_date_last_got_seeding	datetime	Date Last Got Seeding	☐	Date/time at which the facts table was last seeded for new data (UTC).

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Name	Data Type	Label	Required	Documentation
tpn_date_last_load_start	datetime	Date Last Load Start	☐	Date/time at w hich the facts table w as last loaded w ith new data (UTC).
tpn_date_metadata_is_droppable	datetime	Date Metadata is Droppable	☐	Date/time at w hich the metadata on the facts table may first be declared deleted (UTC).
tpn_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
tpn_estimated_size_characters	decimal	Estimated Size (characters)	☐	Estimates size of characters in the data for the table partition version.
tpn_id	decimal	ID	☑	Unique identifier.
tpn_lv_date_last_got_created	datetime	Date Logical View Last Got Created	☐	Date/time at w hich the overall and/or partition logical view s w ere last maintained (UTC).
tpn_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
tpn_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
tpn_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
tpn_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
tpn_refresh_origin	string(1)	Refresh Origin	☑	Origin of the refresh action leading to this version: 'S' for select, 'L' for load and 'R' for refresh.
tpn_seeding_approach_used_code	char	Seeding Approach Used Code	☑	Seeding approach to get a up-to-date data set. Seeding approaches include 'C' for 'Complete', 'S' for 'Smart Sampling' and ' T' for 'Trickle Loading'.
tpn_seeding_approach_used_description	string	Seeding Approach Used Description	☑	Description of the seeding approach.
tpn_seeding_parameter_used_1	string	Seeding Parameter Used #1	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpn_seeding_parameter_used_2	string	Seeding Parameter Used #2	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.

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Name	Data Type	Label	Required	Documentation
tpn_seeding_parameter_used_3	string	Seeding Parameter Used #3	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpn_seeding_parameter_used_4	string	Seeding Parameter Used #4	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpn_seeding_parameter_used_5	string	Seeding Parameter Used #5	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpn_session_created	string(240)	Session Created	☑	The ID of the session which created the record. This value will not change after insert.
tpn_session_modified	string(240)	Session Updated	☑	The ID of the session which last updated the record.
tpn_state_description	string(240)	State Description	☑	Description of the state in which the table partition version is.
tpn_state_note	string(240)	State Note	☐	Note on the state in which the table partition version is.
tpn_state	string(1)	State Code	☑	Code of the state in which the table partition version is.
tpn_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction which created the record.
tpn_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction which last updated the record.
tpn_version	decimal	Version Number	☑	Numeric incremental version of the table partition. Increased by 1 every time a new data set is downloaded and/or calculated.

15 dc_table_partitions: Data Cache Table Partitions

Structure for all rows in a data set of a specific partition.

Catalog: Cache

Schema: Invantive

Alias: `tpt`

Primary Keys: tpt_id

Label: Table Partitions

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

View Columns

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

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Name	Data Type	Label	Required	Documentation
ptn_id	decimal	Partition ID	☑	Reference to a partition.
tbe_id	decimal	Table ID	☑	Reference to a table.
tpt_check_count_rows_max	decimal	Check Count of Rows (Max)	☐	Maximum number of rows that all table partitions of this table should contain.
tpt_check_count_rows_min	decimal	Check Count of Rows (Min)	☐	Minimum number of rows that all table partitions of this table should contain.
tpt_count_rows_first	decimal	Number of Rows in First Load	☐	Number of rows in first version.
tpt_count_rows_last	decimal	Number of Rows in Last Load	☐	Number of rows in last version.
tpt_count_rows_max	decimal	Maximum Number of Rows in Load	☐	Maximum number of rows in a version ever seen.
tpt_count_rows_min	decimal	Minimum Number of Rows in Load	☐	Minimum number of rows in a version ever seen.
tpt_count_rows_total	decimal	Total Number of Rows	☐	Total number of rows in all versions.
tpt_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
tpt_created_by	string(60)	Created by	☑	Who created the record.
tpt_date_copy_activated	datetime	Date Copy Approach Activated	☐	Moment in time at which the copy approach was activated last.
tpt_date_created	datetime	Created at	☑	The system time in UTC at which the record was created. This value will never change after creation of the record.
tpt_date_modified	datetime	Updated at	☑	The system time in UTC at which the record was last updated. This value will change for every mutation of the record.
tpt_date_row_cnt_last_change	datetime	Date Row Count Last Changed	☐	Moment in time at which the row count changed last.
tpt_date_smart_activated	datetime	Date Smart Approach Activated	☐	Moment in time at which the smart approach was activated last.
tpt_date_trickle_activated	datetime	Date Trickle Approach Activated	☐	Moment in time at which the trickle approach was activated last.
tpt_date_trickle_first_message	datetime	Date Reception First Message for Trickle Approach	☐	Moment in time at which a first trickle message was received first.
tpt_estimated_size_chars_first	decimal	Estimated Size in Characters in First Load	☐	Estimated size in characters in first version.
tpt_estimated_size_chars_last	decimal	Estimated Size in Characters in Last Load	☐	Estimated size in characters in last version.

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Name	Data Type	Label	Required	Documentation
tpt_estimated_size_chars_max	decimal	Maximum Estimated Size in Characters	☐	Maximum estimated size in characters in a version ever seen.
tpt_estimated_size_chars_min	decimal	Minimum Estimated Size in Characters	☐	Minimum estimated size in characters in a version ever seen.
tpt_estimated_size_chars_total	decimal	Estimated Total Size (characters)	☐	Total estimated size in characters in all versions.
tpt_id	decimal	ID	☑	Unique identifier.
tpt_lv_ptn_view _md5	string(60)	Logical Partition View MD5	☐	MD5 of the SQL used to create the logical partition view .
tpt_lv_ptn_view _name	string(240)	Logical Partition View Name	☐	Name of the logical partition view in the database.
tpt_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
tpt_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
tpt_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
tpt_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
tpt_seconds_before_droppable	decimal	Seconds before Droppable	☑	Minimum number of seconds before a table partition version facts table becomes droppable.
tpt_seconds_before_obsolete	decimal	Seconds before Obsolete	☑	Minimum number of seconds before a table partition version facts table becomes obsolete.
tpt_seconds_metadata_is_droppable	decimal	Seconds before Metadata Droppable	☑	Minimum number of seconds before a table partition version facts table becomes obsolete.
tpt_seeding_approach_used_code	char	Seeding Approach Used Code	☑	Seeding approach to get a up-to-date data set. Seeding approaches include 'C' for 'Complete', 'S' for 'Smart Sampling' and ' T' for 'Trickle Loading'.
tpt_seeding_approach_used_description	string	Seeding Approach Used Description	☑	Description of the seeding approach.
tpt_seeding_parameter_used_1	string	Seeding Parameter Used #1	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpt_seeding_parameter_used_2	string	Seeding Parameter Used #2	☐	Value of a parameter used for the seeding process. Meaning

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Name	Data Type	Label	Required	Documentation
				depends on the seeding approach.
tpt_seeding_parameter_used_3	string	Seeding Parameter Used #3	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpt_seeding_parameter_used_4	string	Seeding Parameter Used #4	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpt_seeding_parameter_used_5	string	Seeding Parameter Used #5	☐	Value of a parameter used for the seeding process. Meaning depends on the seeding approach.
tpt_seeding_time_sec_first	decimal	Seeding Time in Seconds in First Load	☐	Time in seconds to seed the facts table in first version.
tpt_seeding_time_sec_last	decimal	Seeding Time in Seconds in Last Load	☐	Time in seconds to seed the facts table in last version.
tpt_seeding_time_sec_max	decimal	Maximum Seeding Time in Seconds in Load	☐	Maximum time in seconds to seed the facts table in a version ever seen.
tpt_seeding_time_sec_min	decimal	Minimum Seeding Time in Seconds in Load	☐	Minimum time in seconds to seed the facts table in a version ever seen.
tpt_seeding_time_sec_total	decimal		☐	Total time in seconds to seed the facts table in all versions.
tpt_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
tpt_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
tpt_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
tpt_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.
tpt_version_last	decimal		☐	Number of version that last got issued.

16 dc_tables: Data Cache Tables

Structure for all rows in a data set.

Catalog: Cache

Schema: Invantive

Alias: `tbe`

Primary Keys: tbe_id

Label: Tables

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

View Columns

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

Name	Data Type	Label	Required	Documentation
dcr_id	decimal	Data Container ID	☑	Reference to a data container.
tbe_check_count_rows_max	decimal	Check Count of Rows (Max)	☐	Maximum number of rows that all table partitions of this table should contain.
tbe_check_count_rows_min	decimal	Check Count of Rows (Min)	☐	Minimum number of rows that all table partitions of this table should contain.
tbe_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
tbe_created_by	string(60)	Created by	☑	Who created the record.
tbe_date_created	datetime	Created at	☑	The system time in UTC at which the record was created. This value will never change after creation of the record.
tbe_date_lv_last_got_created	datetime	Date Logical View Last Got Created	☐	Date/time at which the overall and/or partition logical views were last maintained.
tbe_date_modified	datetime	Updated at	☑	The system time in UTC at which the record was last updated. This value will change for every mutation of the record.
tbe_facts_table_name	string(30)	Facts Table Name	☑	Name of the facts table with last downloaded data for this table.
tbe_fragment_code	string(5)	Table Name Fragment Code	☑	Random sequence of characters used to compose the name of the facts table with.
tbe_full_qualified_name	string(240)	Full Qualified Name	☑	Full qualified name of the table to be downloaded.
tbe_history_table_md5	string(60)	MD5 of History Table	☐	MD5 of the SQL used to create the history table.
tbe_history_table_name	string(30)	History Table Name	☑	Name of the history table with current and all previous seen data for this table.
tbe_id	decimal	ID	☑	Unique identifier.
tbe_index_facts_table_flag	string(1)	Index Facts Table?	☑	Whether indexes on facts table must be created and maintained.
tbe_index_history_table_flag	string(1)	Index History Table?	☑	Whether indexes on history table must be created and maintained.
tbe_lv_overall_active_flag	string(1)	Maintain Overall Logical Views	☑	Whether overall logical views must be created and maintained.
tbe_lv_overall_view_name	string(240)	Name of Overall Logical View	☐	Name of the overall logical view.

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Name	Data Type	Label	Required	Documentation
tbe_lv_ptn_active_flag	string(1)	Maintain Partition Logical Views	☑	Whether partition logical views must be created and maintained.
tbe_lv_ptn_view_name_postfix	string(30)	Postfix Partition Logical View Name	☐	Postfix for the name of a partition logical view.
tbe_lv_ptn_view_name_prefix	string(30)	Prefix Partition Logical View Name	☐	Prefix for the name of a partition logical view.
tbe_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from within which the user last updated the record. This value will change for every mutation of the record.
tbe_modified_by	string(60)	Updated by	☑	The name of the user in the users table whom last updated the record. This value will change for every update of the record.
tbe_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from which it originated. It is commonly used to group records for later validation in an application control.
tbe_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from which it originated.
tbe_seconds_before_droppable	decimal	Seconds before Droppable	☑	Default for minimum number of seconds before a table partition version facts table becomes droppable.
tbe_seconds_before_obsolete	decimal	Seconds before Obsolete	☑	Default for minimum number of seconds before a table partition version facts table becomes obsolete.
tbe_seconds_metadata_is_droppable	decimal	Seconds before Metadata Droppable	☑	Default for minimum number of seconds before a table partition version facts table becomes obsolete.
tbe_session_created	string(240)	Session Created	☑	The ID of the session which created the record. This value will not change after insert.
tbe_session_modified	string(240)	Session Updated	☑	The ID of the session which last updated the record.
tbe_table_md5	string(60)	MD5 of Facts Table	☐	MD5 of the SQL used to create the facts table.
tbe_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction which created the record.
tbe_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction which last updated the record.

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17 dc_tpn_states: Data Cache Table Version States

Meaning of state value for table partition versions.

Catalog: Cache

Schema: Invantive

Alias: `tse`

Primary Keys: tse_code

Label: Table Version States

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

View Columns

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

Name	Data Type	Label	Required	Documentation
tse_code	char	Code	☑	Unique code for a state.
tse_description	string(240)	Description	☑	Human-readable description of the state code.
tse_notes	string(240)	Notes	☑	Notes on the specific state.

18 dc_versions: Data Cache Installation History

Repository data model version installed.

Catalog: Cache

Schema: Invantive

Alias: `vsn`

Primary Keys: vsn_id

Label: Installation History

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

View Columns

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

Name	Data Type	Label	Required	Documentation
vsn_created_at	string(60)	Created in	☑	The code of the function in the modules table from within which the user created the record. This value will never change after creation of the record.
vsn_created_by	string(60)	Created by	☑	Who created the record.

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Name	Data Type	Label	Required	Documentation
vsn_data_model_version	decimal	Data Model Version	☑	Version of the repository data model installed.
vsn_date_created	datetime	Created at	☑	The system time in UTC at w hich the record w as created. This value w ill never change after creation of the record.
vsn_date_modified	datetime	Updated at	☑	The system time in UTC at w hich the record w as last updated. This value w ill change for every mutation of the record.
vsn_dummy	string(1)	Dummy	☑	Placeholder for a unique value to ensure uniqueness and at most one row in this table.
vsn_id	decimal	ID	☑	Unique identifier.
vsn_modified_at	string(60)	Updated in	☑	The code of the function in the modules table from w ithin w hich the user last updated the record. This value w ill change for every mutation of the record.
vsn_modified_by	string(60)	Updated by	☑	The name of the user in the users table w hom last updated the record. This value w ill change for every update of the record.
vsn_orig_system_group	string(240)	Original System Group	☐	Reference for identifying the group of records on the system from w hich it originated. It is commonly used to group records for later validation in an application control.
vsn_orig_system_reference	string(240)	Original System Reference	☐	Reference for identifying the record on the system from w hich it originated.
vsn_session_created	string(240)	Session Created	☑	The ID of the session w hich created the record. This value w ill not change after insert.
vsn_session_modified	string(240)	Session Updated	☑	The ID of the session w hich last updated the record.
vsn_transaction_created	string(240)	Transaction Created	☑	The ID of the transaction w hich created the record.
vsn_transaction_modified	string(240)	Transaction Updated	☑	The ID of the transaction w hich last updated the record.

19 dc_warning_statistics: Data Cache Warning Statistics

Statistics on the warnings.

Catalog: Cache

Schema: Invantive

Alias: `vsn`

Label: Warning Statistics

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

View Columns

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

Name	Data Type	Label	Required	Documentation
wsc_cnt_errors	decimal	#Errors	☑	Total number of errors.
wsc_cnt_warnings	decimal	#Warnings	☑	Total number of warnings.
wsc_cnt	decimal	Count	☑	Total number of messages.

20 dc_warnings: Data Cache Warnings

Warnings on the loading process.

Catalog: Cache

Schema: Invantive

Alias: `vsn`

Label: Warnings

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

View Columns

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

Name	Data Type	Label	Required	Documentation
dcr_name	string(240)	Data Container ID	☑	Name of the data container.
ptn_name	string(240)	Partition Name	☐	Name of partition.
tbe_full_qualified_name	string(4000)	Full Qualified Table Name	☐	Full name of the replicated table.
wng_date_parameter1	datetime	Date Parameter 1	☐	Additional data #1 in date format on the warning.
wng_date_parameter2	datetime	Date Parameter 2	☐	Additional data #2 in date format on the warning.
wng_explanation	string(240)	Explanation	☑	Explanation.
wng_kind_request	string(240)	Kind Request	☑	Kind request.
wng_label_parameter1	string	Label Parameter 1	☐	Label for additional data #1 in date format on the warning.
wng_label_parameter2	string	Label Parameter 2	☐	Label for additional data #2 in date format on the warning.
wng_lvl	string(1)	Level	☑	Severity level of warning, either 'E' for 'Error' or 'W' for 'Warning'.

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Name	Data Type	Label	Required	Documentation
w ng_message_code	string(60)	Message Code	☐	Message code.
w ng_ref_key	decimal	Referential Key	☑	Key of referenced source row .
w ng_ref_nk	string	Referential Natural Key	☑	Natural key of reference source row .
w ng_ref_table	string(3)	Referential Table	☑	Code of the table containing the referenced source row .

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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
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