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Discourse Data Model

for use with Invantive SQL

23.0



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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 Discourse API

Invantive SQL is the fastest, easiest and most reliable way to exchange data with the Discourse API.

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](https://forums.invantive.com/). Invantive Support or other users will try to help you.

Discourse is an open source discussion platform for forums, chat rooms and community building.

The Discourse driver covers 0 tables and 0 columns.

Discourse API Clients

Invantive SQL is available on many user interfaces ("clients" in traditional server-client paradigm). 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.

The [Discourse Power BI connector](https://cloud.invantive.com/discourse) is based on the Invantive SQL driver for Discourse, completed by a high-performance OData connector which works straight on Power BI without any add-on. The OData protocol is always version 4, independent whether the backing platform uses OData, SOAP or another protocol.

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. High-volume replication of data taken from the Discourse API into traditional databases such as SQL Server (on-premises and Azure), MySQL, PostgreSQL and Oracle is possible using [Invantive Data Replicator](https://data-replicator.cloud/). Invantive Data Replicator automatically creates and maintains Discourse datawarehouses, possibly in combination with data from over 75 other (cloud) platforms. Invantive Data Replicator supports data volumes up to over 1 TB and over 5.000 companies. The on-premise edition of Invantive Bridge offers an Discourse ADO.net provider.

Finally, online web apps can be build for Discourse using App Online of [Invantive Cloud](https://cloud.invantive.com/discourse).

Monitor API Calls

When a query or DML-statement has been executed on Invantive SQL a developer can evaluate the actual calls made to the Discourse API using a query on sessionios@DataDictionary. As an alternative, extensive request and response logging can

be enabled by setting `log-native-calls-to-disk` to `true`. In the `%USERPROFILE%\Invantive\NativeLog` folder Invantive SQL will create log files per Discourse API request and response.

Specifications

The SQL driver for Discourse does not support partitioning. Define one data container in a database for each company in Discourse to enable parallel access for data from multiple companies.

An introduction into the concepts of Invantive SQL such as databases, data containers and partitioning can be found in the <https://go.invantive.com/sqlgrammar> target="_blank" styleclass="Normal" translate="true">Invantive SQL grammar.

itgen_doc_expl062_dot itgen_doc_expl063_dot

itgen_doc_expl064_dot itgen_doc_expl066_dot itgen_doc_expl068_dot

itgen_doc_expl070_dot itgen_doc_expl072_dot itgen_doc_expl073_dot

itgen_doc_expl074_dot: Discourse

Alias: dce

Recommended alias: dce

itgen_doc_expl074_dot

itgen_doc_expl076_dot

itgen_doc_expl077_dot

2 SQL Driver Attributes for Discourse API

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

The Discourse 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.

itgen_doc_expl078_dot 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. The reference manuals contain instructions how to relocate the `settings*.xml` files. 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 Discourse driver can be configured using the following attributes:

itgen_doc_code	itgen_doc_description	itgen_doc_origin	itgen_doc_default_value	itgen_doc_set_connection_string	itgen_doc_set_sql	itgen_doc_set_drivers	itgen_doc_set_log_on
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Database Driver 1

dce 1

Discourse 1



invantive the **SQL** company

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