


# Data Cache Data Model

*for use with Invantive SQL*

24.0



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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.

# Important Safety and Usage Information

Intended Use and Limitations: This software, developed by Invantive, is designed to support a variety of business and information technology data processing functions, such as accounting, financial reporting an sales reporting. It is important to note that this software is not designed, tested, or approved for use in environments where malfunction or failure could lead to life-threatening situations or severe physical or environmental damage. This includes, but is not limited to:

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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 w ithin w hich the user created the record. This value w ill 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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