



# SQL Server 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.

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# Contents

<b>1</b>	<b>SQL Driver for SQL Server</b>	<b>1</b>
<b>2</b>	<b>SQL Driver Attributes for SQL Server</b>	<b>2</b>
<b>3</b>	<b>Catalog: Database</b>	<b>5</b>
<b>3.1</b>	<b>Schemas</b> .....	<b>5</b>
3.1.1	Schema: Invantive .....	5
3.1.2	Schema: Metadata .....	10
3.1.3	Schema: Native .....	22
<b>4</b>	<b>Catalog: master</b>	<b>24</b>
<b>4.1</b>	<b>Schemas</b> .....	<b>24</b>
4.1.1	spt_fallback_db .....	24
4.1.2	spt_fallback_dev .....	24
4.1.3	spt_fallback_usg .....	25
4.1.4	spt_monitor .....	25
4.1.5	spt_values .....	26
<b>5</b>	<b>Catalog: msdb</b>	<b>27</b>
<b>5.1</b>	<b>Schemas</b> .....	<b>27</b>
5.1.1	autoadmin_backup_configuration_summary .....	27
5.1.2	backupfile .....	27
5.1.3	backupmediafamily .....	28
5.1.4	backupmediaset .....	29
5.1.5	backupset .....	29
5.1.6	dm_hadr_automatic_seeding_history .....	31
5.1.7	logmarkhistory .....	32
5.1.8	restorefile .....	32
5.1.9	restorefilegroup .....	33
5.1.10	restorehistory .....	33
5.1.11	suspect_pages .....	34
5.1.12	sysdac_instances .....	34
5.1.13	syspolicy_conditions .....	35
5.1.14	syspolicy_configuration .....	35
5.1.15	syspolicy_object_sets .....	36
5.1.16	syspolicy_policies .....	36
5.1.17	syspolicy_policy_categories .....	37
5.1.18	syspolicy_policy_category_subscriptions .....	37
5.1.19	syspolicy_policy_execution_history .....	38
5.1.20	syspolicy_policy_execution_history_details .....	38
5.1.21	syspolicy_system_health_state .....	39
5.1.22	syspolicy_target_set_levels .....	39
5.1.23	syspolicy_target_sets .....	40
	<b>Index</b>	<b>41</b>

## 1 SQL Driver for SQL Server

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

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](#). Other users or Invantive Support will try to help you to our best.

Microsoft SQL Server is a traditional database platform. SQL Server supports ANSI SQL. It is available both as a cloud database on Microsoft Azure as a traditional database running on-premise or hosted.

### SQL Server Clients

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

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

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

For technical users there are command-line editions of Invantive Data Hub running on iOS, Android, Windows, MacOS and Linux. Invantive Data Hub is also often used for enterprise server applications such as ETL. High-volume replication of data taken from SQL Server into traditional databases such as SQL Server (on-premise and Azure), MySQL, PostgreSQL and Oracle is possible using [Invantive Data Replicator](#). Invantive Data Replicator automatically creates and maintains SQL Server datawarehouses, possibly in combination with data from over 70 other (cloud) platforms. Data Replicator supports data volumes up to over 1 TB and over 5.000 companies. The on-premise edition of Invantive Bridge offers an SQL Server ADO.net provider.

Finally, online web apps can be build for SQL Server using App Online of [Invantive Cloud](#).

### Monitor API Calls

When a query or DML-statement has been executed on Invantive SQL a developer can evaluate the actual calls made to SQL Server using a query on `sessionios@DataDictionary`. As an alternative, extensive request and response logging can be enabled by setting `log-native-calls-to-disk` to true. In the `%USERPROFILE%\Invantive\NativeLogs` folder Invantive SQL will create log files per request and response.

### Specifications

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

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

The configuration can be changed using various attributes during log on and use. A full list of configuration options is listed in the [driver attributes](#) [2].

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 SQL Server the comparison of two texts is case sensitive by default.

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

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

Alias: `mssql`

Recommended alias: `mss`

Updated: 12-12-2020 18:19 using Invantive SQL version 20.1.301-BETA+3023.

## 2 SQL Driver Attributes for SQL Server

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

The SQL Server 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.
- Drivers file: the providers.xml file (obsolete starting release 17.32).
- Log on: value to be specified interactively by user during log on in a user interface.

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

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

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

The SQL Server driver can be configured using the following attributes:

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
analysis-enforce-row-uniqueness	Use for analysis only! Enforce rows to be unique.	Shared	False	✓	✓	✓	
bulk-delete-page-size-rows	Number of rows to delete per batch when bulk deleting	Shared	3000	✓	✓	✓	
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	3000	✓	✓	✓	
bulk-insert-timeout-sec	Number of seconds after which a bulk insert times out	SQL Server	300	✓	✓	✓	
command-timeout-sec	Number of seconds after which a command times out.			✓	✓	✓	
connection-string-async-add	Should the 'Async' be added automatically to the connection string?	SQL Server	False	✓	✓	✓	
connection-string-async-value	Size of the Async to be added to the connection string	SQL Server	True	✓	✓	✓	
connection-string-multiple-active-result-sets-add	Should the 'MultipleActiveResultSets' be added automatically to the connection string?	SQL Server	True	✓	✓	✓	
connection-string-multiple-active-result-sets-value	Value of MultipleActiveResultSets to be added to the connection string	SQL Server	True	✓	✓	✓	
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		✓	✓	✓	
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-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	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
log-native-calls-to-disk	Registers native calls to data container backend as disk files.	Shared	False	✓	✓	✓	
log-native-calls-to-trace	Log native calls to data container backend on the trace.	Shared	False	✓	✓	✓	
maximum-length-identifiers	Non-default maximum length in characters of identifier names.	Shared		✓	✓	✓	
maximum-number-of-pooled-connections	Maximum number of concurrent pooled connections.			✓	✓	✓	
maximum-sleep-acquire-pooled-connection-ms	Maximum time in ms to wait for acquiring a free connection from a pool of connections.		30000	✓	✓	✓	
maximum-sleep-acquire-unpooled-connection-ms	Maximum time in ms to wait for acquire a free connection when there is no connection pooling.		60000	✓	✓	✓	
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	✓	✓	✓	
minimum-command-timeout-sec	Minimum number of seconds after which a command times out.		300	✓	✓	✓	
minimum-connection-timeout-sec	Minimum connection timeout in seconds.			✓	✓	✓	
on-close-sql	Native SQL statements to execute directly before close.			✓	✓	✓	
on-open-sql	Native SQL statements to execute directly after open.			✓	✓	✓	
open-connection-interval-sec	Delay between retries in milliseconds when login fails.		500	✓	✓	✓	
open-connection-retries	Maximum number of retries when login fails.		2	✓	✓	✓	
partition-slot-based-rate-limit-length-ms	Total length in ms 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		✓		✓	
pooled-connection-monitor-interval-sec	Minimum interval in seconds between two connection pool monitor activations.		60	✓	✓	✓	
pooled-connection-release-obsolete-interval-sec	Minimum interval in seconds between two tries to release obsolete connections from the connection pool when above the preferred number of connections.		60	✓	✓	✓	
pooled-connections-monitoring	Enable monitoring of connections of connection pool for automatic cleanup of obsolete connections.		True	✓	✓	✓	

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Driver's File	Set from Log On
preferred-number-of-pooled-connections	Preferred number of concurrent pooled connections.			✓	✓	✓	
prefix-bind-variable-in-list	Prefix for bind variables used in an IN-list		i	✓	✓	✓	
prefix-bind-variable-normal	Prefix for bind variables used in all cases except in an IN-list		w	✓	✓	✓	
prefix-renamed-columns	Prefix appended to columns whose names occur multiple times in the column list of a query		column	✓	✓	✓	
pre-request-delay-ms	Pre-request delay in milliseconds per request.	Shared	0	✓	✓	✓	
requested-page-size	Preferred number of rows to exchange per round trip; only effective on limited platforms such as AFAS Online	Shared		✓	✓	✓	
requests-parallel-max	Maximum number of parallel data requests from individual partitions on the data container.	Shared	32	✓	✓	✓	
slot-based-rate-limit-length-ms	Total length in ms across all slots of a slot-based rate limit.	Shared	60000	✓		✓	
slot-based-rate-limit-slots	Number of slots of a slot-based rate limit. Null means no slot-based rate limit	Shared		✓		✓	
standardize-identifiers	Rewrite all identifiers to the preferred standards as configured by standardize-identifiers-casing and maximum-length-identifiers.	Shared	True	✓	✓	✓	
standardize-identifiers-casing	Rewrite all identifiers to the recommended standard platform-specific casing when changing a data model on a case-dependent platform.	Shared	True	✓	✓	✓	

## 3 Catalog: Database

### 3.1 Schemas

#### 3.1.1 Schema: Invantive

##### 3.1.1.1 Tables

##### Collections: SQL Server Metadata Collections

Catalog: Database

Schema: Invantive

Label: Metadata Collections

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>COLLECTION_NAME</code>	string(240)	Collection Name	<input type="checkbox"/>	
<code>NUMBER_OF_IDENTIFIER_PARTS</code>	int32	Number of Identifier Parts	<input type="checkbox"/>	
<code>NUMBER_OF_RESTRICTIONS</code>	int32	Number of Restrictions	<input type="checkbox"/>	
<code>POPULATION_MECHANISM</code>	string(240)	Population Mechanism	<input type="checkbox"/>	
<code>POPULATION_STRING</code>	string(240)	Population String	<input type="checkbox"/>	
<code>SCHEMA_NAME</code>	string(240)	Schema	<input type="checkbox"/>	

### Data Source Information: SQL Server Data Source Information

Catalog: Database

Schema: Invantive

Label: Data Source Information

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>COMPOSITE_IDENTIFIER_SEPARATOR_PATTERN</code>	string(240)	Composite Identifier Separator Pattern	<input type="checkbox"/>	
<code>GROUP_BY_BEHAVIOR</code>	int32	Group by Behavior	<input type="checkbox"/>	
<code>IDENTIFIER_CASE</code>	int32	Identifier Case	<input type="checkbox"/>	0: Unknown, the data source has ambiguous rules regarding identifier case and cannot discern this information; 1: Insensitive; the data source ignores identifier case when searching the system catalog. The identifiers "ab" and "AB" will match; 2: Sensitive; the data source distinguishes identifier case when searching the system catalog. The identifiers "ab" and "AB" will not match.
<code>IDENTIFIER_PATTERN</code>	string(240)	Identifier Pattern	<input type="checkbox"/>	
<code>ORDER_BY_COLUMNS_IN_SELECT</code>	boolean	Order by Columns in Select	<input type="checkbox"/>	
<code>PARAMETER_MARKER_FORMAT</code>	string(240)	Parameter Marker Format	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
PARAMETER_MARKER_PATTERN	string(240)	Parameter Marker Pattern	<input type="checkbox"/>	
PARAMETER_NAME_MAX_LENGTH	int32	Parameter Name Maximum Length	<input type="checkbox"/>	
PARAMETER_NAME_PATTERN	string(240)	Parameter Name Pattern	<input type="checkbox"/>	
PRODUCT_NAME	string(240)	Product Name	<input type="checkbox"/>	
PRODUCT_VERSION	string(240)	Product Version	<input type="checkbox"/>	
PRODUCT_VERSION_NORMALIZED	string(240)	Product Version Normalized	<input type="checkbox"/>	
QUOTED_IDENTIFIER_CASE	string(240)	Quoted Identifier Case	<input type="checkbox"/>	
QUOTED_IDENTIFIER_PATTERN	string(240)	Quoted Identifier Pattern	<input type="checkbox"/>	
STATEMENT_SEPARATOR_PATTERN	string(240)	Statement Separator Pattern	<input type="checkbox"/>	
STRING_LITERAL_PATTERN	string(240)	String Literal Pattern	<input type="checkbox"/>	
SUPPORTED_JOIN_OPERATORS	int32	Supported Join Operators	<input type="checkbox"/>	

### DataTypes: SQL Server Data Types

Catalog: Database

Schema: Invantive

Label: Data Types

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
COLUMN_SIZE	int64	Column Size	<input type="checkbox"/>	
CREATE_FORMAT	string(240)	Create Format	<input type="checkbox"/>	
CREATE_PARAMETERS	string(240)	Create Parameters	<input type="checkbox"/>	
DATA_TYPE	string(240)	Data Type	<input type="checkbox"/>	
IS_AUTOINCREMENTABLE	boolean	Is Auto-incrementable	<input type="checkbox"/>	
IS_BEST_MATCH	boolean	Is Best Match	<input type="checkbox"/>	
IS_CASE_SENSITIVE	boolean	Is Case-sensitive	<input type="checkbox"/>	
IS_CONCURRENCY_TYPE	boolean	Is Concurrency Type	<input type="checkbox"/>	
IS_FIXED_LENGTH	boolean	Is Fixed Length	<input type="checkbox"/>	
IS_FIXED_PRECISION_SCALE	boolean	Is Fixed Precision Scale	<input type="checkbox"/>	
IS_LITERAL_SUPPORTED	boolean	Is Literal Supported	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
IS_LONG	boolean	Is Long	<input type="checkbox"/>	
IS_NULLABLE	boolean	Is Nullable	<input type="checkbox"/>	
IS_SEARCHABLE	boolean	Is Searchable	<input type="checkbox"/>	
IS_SEARCHABLE_WITH_LIKE	boolean	Is Searchable with Like	<input type="checkbox"/>	
IS_UNSIGNED	boolean	Is Unsigned	<input type="checkbox"/>	
LITERAL_PREFIX	string(240)	Literal Prefix	<input type="checkbox"/>	
LITERAL_SUFFIX	string(240)	Literal Suffix	<input type="checkbox"/>	
MAXIMUM_SCALE	int16	Maximum Scale	<input type="checkbox"/>	
MINIMUM_SCALE	int16	Minimum Scale	<input type="checkbox"/>	
NATIVE_DATA_TYPE	string(240)	Native Data Type	<input type="checkbox"/>	
PROVIDER_DB_TYPE	int32	Provider Database Type	<input type="checkbox"/>	
SCHEMA_NAME	string(240)	Schema	<input type="checkbox"/>	
TYPE_NAME	string(240)	Type Name	<input type="checkbox"/>	

### PooledConnections: SQL Server Pooled Connections

Catalog: Database

Schema: Invantive

Label: Pooled Connections

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
CONNECTION_TIMEOUT_SEC	int32	Connection Time-out (sec)	<input checked="" type="checkbox"/>	
COUNT_TIMES_USED	int32	Number of Times Used	<input type="checkbox"/>	
CREATED_UTC	datetime	Date Created	<input type="checkbox"/>	
CURRENT_CONTEXT_DESCRIPTION	string(240)	Current Context Description	<input type="checkbox"/>	
CURRENT_CONTEXT_NATURAL_KEY	string(240)	Current Context Natural Key	<input type="checkbox"/>	
CURRENT_CONTEXT_USER_LOG_ON_CODE	string(240)	Current Context User Log On Code	<input type="checkbox"/>	
DATABASE	string(240)	Database	<input type="checkbox"/>	
DURATION_USED_MS	int32	Duration Used (ms)	<input type="checkbox"/>	
ID	int32	ID	<input type="checkbox"/>	
IS_FREE	boolean	Is Free	<input checked="" type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
LAST_USE_DURATION_MS	int32	Last Use Duration (ms)		
LAST_USE_END_UTC	datetime	Last Use End		
LAST_USE_START_UTC	datetime	Last Use Start		
ON_CLOSE_SQL_DURATION_MS	int32	SQL On Close Duration (ms)	<input type="checkbox"/>	
ON_CLOSE_SQL_START_UTC	datetime	SQL On Close Start (UTC)	<input type="checkbox"/>	
ON_CLOSE_SQL_STATEMENT	string	SQL On Open Statement	<input type="checkbox"/>	
ON_OPEN_SQL_DURATION_MS	int32	SQL On Open Duration (ms)	<input type="checkbox"/>	
ON_OPEN_SQL_START_UTC	datetime	SQL On Open Start (UTC)	<input type="checkbox"/>	
ON_OPEN_SQL_STATEMENT	string	SQL On Open Statement	<input type="checkbox"/>	
PREVIOUS_CONTEXT_DESCRIPTIONS	string	Previous Context Descriptions		
SERVER_VERSION	string(240)	Server Version		
USAGE_PERCENTAGE	int32	Usage (%)	<input checked="" type="checkbox"/>	

### Restrictions: SQL Server Restrictions

Catalog: Database

Schema: Invantive

Label: Restrictions

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
COLLECTION_NAME	string(240)	Collection Name	<input type="checkbox"/>	
PARAMETER_NAME	string(240)	Parameter Name	<input type="checkbox"/>	
RESTRICTION_DEFAULT	string(240)	Restriction Default	<input type="checkbox"/>	
RESTRICTION_NAME	string(240)	Restriction Name	<input type="checkbox"/>	
RESTRICTION_NUMBER	int32	Restriction Number	<input type="checkbox"/>	
SCHEMA_NAME	string(240)	Schema	<input type="checkbox"/>	

### 3.1.2 Schema: Metadata

#### 3.1.2.1 Tables

##### AllColumns

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
CHARACTER_MAXIMUM_LENGTH	int32	CHARACTER_MAXIMUM_LENGTH	<input type="checkbox"/>	
CHARACTER_OCTET_LENGTH	int32	CHARACTER_OCTET_LENGTH	<input type="checkbox"/>	
CHARACTER_SET_CATALOG	string	CHARACTER_SET_CATALOG	<input type="checkbox"/>	
CHARACTER_SET_NAME	string	CHARACTER_SET_NAME	<input type="checkbox"/>	
CHARACTER_SET_SCHEMA	string	CHARACTER_SET_SCHEMA	<input type="checkbox"/>	
COLLATION_CATALOG	string	COLLATION_CATALOG	<input type="checkbox"/>	
COLUMN_DEFAULT	string	COLUMN_DEFAULT	<input type="checkbox"/>	
COLUMN_NAME	string	COLUMN_NAME	<input type="checkbox"/>	
DATA_TYPE	string	DATA_TYPE	<input type="checkbox"/>	
DATETIME_PRECISION	int16	DATETIME_PRECISION	<input type="checkbox"/>	
IS_COLUMN_SET	boolean	IS_COLUMN_SET	<input type="checkbox"/>	
IS_FILESTREAM	boolean	IS_FILESTREAM	<input type="checkbox"/>	
IS_NULLABLE	string	IS_NULLABLE	<input type="checkbox"/>	
IS_SPARSE	boolean	IS_SPARSE	<input type="checkbox"/>	
NUMERIC_PRECISION	byte	NUMERIC_PRECISION	<input type="checkbox"/>	
NUMERIC_PRECISION_RADIX	int16	NUMERIC_PRECISION_RADIX	<input type="checkbox"/>	
NUMERIC_SCALE	int32	NUMERIC_SCALE	<input type="checkbox"/>	
ORDINAL_POSITION	int32	ORDINAL_POSITION	<input type="checkbox"/>	
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	

**Columns**

Catalog: Database

Schema: Metadata

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

**View Columns**

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

Name	Data Type	Label	Required	Documentation
CHARACTER_MAXIMUM_LENGTH	int32	CHARACTER_MAXIMU M_LENGTH	<input type="checkbox"/>	
CHARACTER_OCTET_LENGTH	int32	CHARACTER_OCTET_ LENGTH	<input type="checkbox"/>	
CHARACTER_SET_CATALOG	string	CHARACTER_SET_CA TALOG	<input type="checkbox"/>	
CHARACTER_SET_NAME	string	CHARACTER_SET_NA ME	<input type="checkbox"/>	
CHARACTER_SET_SCHEMA	string	CHARACTER_SET_SC HEMA	<input type="checkbox"/>	
COLLATION_CATALOG	string	COLLATION_CATALO G	<input type="checkbox"/>	
COLUMN_DEFAULT	string	COLUMN_DEFAULT	<input type="checkbox"/>	
COLUMN_NAME	string	COLUMN_NAME	<input type="checkbox"/>	
DATA_TYPE	string	DATA_TYPE	<input type="checkbox"/>	
DATETIME_PRECISION	int16	DATETIME_PRECISION	<input type="checkbox"/>	
IS_COLUMN_SET	boolean	IS_COLUMN_SET	<input type="checkbox"/>	
IS_FILESTREAM	boolean	IS_FILESTREAM	<input type="checkbox"/>	
IS_NULLABLE	string	IS_NULLABLE	<input type="checkbox"/>	
IS_SPARSE	boolean	IS_SPARSE	<input type="checkbox"/>	
NUMERIC_PRECISION	byte	NUMERIC_PRECISION	<input type="checkbox"/>	
NUMERIC_PRECISION_RADIX	int16	NUMERIC_PRECISION_ RADIX	<input type="checkbox"/>	
NUMERIC_SCALE	int32	NUMERIC_SCALE	<input type="checkbox"/>	
ORDINAL_POSITION	int32	ORDINAL_POSITION	<input type="checkbox"/>	
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	

**ColumnSetColumns**

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
CHARACTER_MAXIMUM_LENGTH	int32	CHARACTER_MAXIMU M_LENGTH	<input type="checkbox"/>	
CHARACTER_OCTET_LENGTH	int32	CHARACTER_OCTET_ LENGTH	<input type="checkbox"/>	
CHARACTER_SET_CATALOG	string	CHARACTER_SET_CA TALOG	<input type="checkbox"/>	
CHARACTER_SET_NAME	string	CHARACTER_SET_NA ME	<input type="checkbox"/>	
CHARACTER_SET_SCHEMA	string	CHARACTER_SET_SC HEMA	<input type="checkbox"/>	
COLLATION_CATALOG	string	COLLATION_CATALO G	<input type="checkbox"/>	
COLUMN_DEFAULT	string	COLUMN_DEFAULT	<input type="checkbox"/>	
COLUMN_NAME	string	COLUMN_NAME	<input type="checkbox"/>	
DATA_TYPE	string	DATA_TYPE	<input type="checkbox"/>	
DATETIME_PRECISION	int16	DATETIME_PRECISION	<input type="checkbox"/>	
IS_COLUMN_SET	boolean	IS_COLUMN_SET	<input type="checkbox"/>	
IS_FILESTREAM	boolean	IS_FILESTREAM	<input type="checkbox"/>	
IS_NULLABLE	string	IS_NULLABLE	<input type="checkbox"/>	
IS_SPARSE	boolean	IS_SPARSE	<input type="checkbox"/>	
NUMERIC_PRECISION	byte	NUMERIC_PRECISION	<input type="checkbox"/>	
NUMERIC_PRECISION_RADIX	int16	NUMERIC_PRECISION_ RADIX	<input type="checkbox"/>	
NUMERIC_SCALE	int32	NUMERIC_SCALE	<input type="checkbox"/>	
ORDINAL_POSITION	int32	ORDINAL_POSITION	<input type="checkbox"/>	
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	

### Databases

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>create_date</code>	<code>datetime</code>	<code>create_date</code>	<input type="checkbox"/>	
<code>database_name</code>	<code>string</code>	<code>database_name</code>	<input type="checkbox"/>	
<code>dbid</code>	<code>int16</code>	<code>dbid</code>	<input type="checkbox"/>	

### Data Source Information

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>COMPOSITE_IDENTIFIER_SEPARATOR_PATTERN</code>	<code>string(240)</code>	Composite Identifier Separator Pattern	<input type="checkbox"/>	
<code>GROUP_BY_BEHAVIOR</code>	<code>int32</code>	Group by Behavior	<input type="checkbox"/>	
<code>IDENTIFIER_CASE</code>	<code>int32</code>	Identifier Case	<input type="checkbox"/>	0: Unknown, the data source has ambiguous rules regarding identifier case and cannot discern this information; 1: Insensitive; the data source ignores identifier case when searching the system catalog. The identifiers "ab" and "AB" will match; 2: Sensitive; the data source distinguishes identifier case when searching the system catalog. The identifiers "ab" and "AB" will not match.
<code>IDENTIFIER_PATTERN</code>	<code>string(240)</code>	Identifier Pattern	<input type="checkbox"/>	
<code>ORDER_BY_COLUMNS_IN_SELECT</code>	<code>boolean</code>	Order by Columns in Select	<input type="checkbox"/>	
<code>PARAMETER_MARKER_FORMAT</code>	<code>string(240)</code>	Parameter Marker Format	<input type="checkbox"/>	
<code>PARAMETER_MARKER_PATTERN</code>	<code>string(240)</code>	Parameter Marker Pattern	<input type="checkbox"/>	
<code>PARAMETER_NAME_MAX_LENGTH</code>	<code>int32</code>	Parameter Name Maximum Length	<input type="checkbox"/>	
<code>PARAMETER_NAME_PATTERN</code>	<code>string(240)</code>	Parameter Name Pattern	<input type="checkbox"/>	
<code>PRODUCT_NAME</code>	<code>string(240)</code>	Product Name	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
PRODUCT_VERSION	string(240)	Product Version	<input type="checkbox"/>	
PRODUCT_VERSION_NORMALIZED	string(240)	Product Version Normalized	<input type="checkbox"/>	
QUOTED_IDENTIFIER_CASE	string(240)	Quoted Identifier Case	<input type="checkbox"/>	
QUOTED_IDENTIFIER_PATTERN	string(240)	Quoted Identifier Pattern	<input type="checkbox"/>	
STATEMENT_SEPARATOR_PATTERN	string(240)	Statement Separator Pattern	<input type="checkbox"/>	
STRING_LITERAL_PATTERN	string(240)	String Literal Pattern	<input type="checkbox"/>	
SUPPORTED_JOIN_OPERATORS	int32	Supported Join Operators	<input type="checkbox"/>	

## Data Types

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
COLUMN_SIZE	int64	Column Size	<input type="checkbox"/>	
CREATE_FORMAT	string(240)	Create Format	<input type="checkbox"/>	
CREATE_PARAMETERS	string(240)	Create Parameters	<input type="checkbox"/>	
DATA_TYPE	string(240)	Data Type	<input type="checkbox"/>	
IS_AUTOINCREMENTABLE	boolean	Is Auto-incrementable	<input type="checkbox"/>	
IS_BEST_MATCH	boolean	Is Best Match	<input type="checkbox"/>	
IS_CASE_SENSITIVE	boolean	Is Case-sensitive	<input type="checkbox"/>	
IS_CONCURRENCY_TYPE	boolean	Is Concurrency Type	<input type="checkbox"/>	
IS_FIXED_LENGTH	boolean	Is Fixed Length	<input type="checkbox"/>	
IS_FIXED_PRECISION_SCALE	boolean	Is Fixed Precision Scale	<input type="checkbox"/>	
IS_LITERAL_SUPPORTED	boolean	Is Literal Supported	<input type="checkbox"/>	
IS_LONG	boolean	Is Long	<input type="checkbox"/>	
IS_NULLABLE	boolean	Is Nullable	<input type="checkbox"/>	
IS_SEARCHABLE	boolean	Is Searchable	<input type="checkbox"/>	
IS_SEARCHABLE_WITH_LIKE	boolean	Is Searchable with Like	<input type="checkbox"/>	
IS_UNSIGNED	boolean	Is Unsigned	<input type="checkbox"/>	
LITERAL_PREFIX	string(240)	Literal Prefix	<input type="checkbox"/>	
LITERAL_SUFFIX	string(240)	Literal Suffix	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
MAXIMUM_SCALE	int16	Maximum Scale	<input type="checkbox"/>	
MINIMUM_SCALE	int16	Minimum Scale	<input type="checkbox"/>	
NATIVE_DATA_TYPE	string(240)	Native Data Type	<input type="checkbox"/>	
PROVIDER_DB_TYPE	int32	Provider Database Type	<input type="checkbox"/>	
SCHEMA_NAME	string(240)	Schema	<input type="checkbox"/>	
TYPE_NAME	string(240)	Type Name	<input type="checkbox"/>	

### ForeignKeys

Catalog: Database

Schema: Metadata

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

### View Columns

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

Name	Data Type	Label	Required	Documentation
CONSTRAINT_CATALOG	string	CONSTRAINT_CATALOG	<input type="checkbox"/>	
CONSTRAINT_NAME	string	CONSTRAINT_NAME	<input type="checkbox"/>	
CONSTRAINT_SCHEMA	string	CONSTRAINT_SCHEMA	<input type="checkbox"/>	
CONSTRAINT_TYPE	string	CONSTRAINT_TYPE	<input type="checkbox"/>	
INITIALLY_DEFERRED	string	INITIALLY_DEFERRED	<input type="checkbox"/>	
IS_DEFERRABLE	string	IS_DEFERRABLE	<input type="checkbox"/>	
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	

### IndexColumns

Catalog: Database

Schema: Metadata

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

### View Columns

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

Name	Data Type	Label	Required	Documentation
<code>column_name</code>	string	<code>column_name</code>	<input type="checkbox"/>	
<code>constraint_catalog</code>	string	<code>constraint_catalog</code>	<input type="checkbox"/>	
<code>constraint_name</code>	string	<code>constraint_name</code>	<input type="checkbox"/>	
<code>constraint_schema</code>	string	<code>constraint_schema</code>	<input type="checkbox"/>	
<code>index_name</code>	string	<code>index_name</code>	<input type="checkbox"/>	
<code>KeyType</code>	byte	<code>KeyType</code>	<input type="checkbox"/>	
<code>ordinal_position</code>	int32	<code>ordinal_position</code>	<input type="checkbox"/>	
<code>table_catalog</code>	string	<code>table_catalog</code>	<input type="checkbox"/>	
<code>table_name</code>	string	<code>table_name</code>	<input type="checkbox"/>	
<code>table_schema</code>	string	<code>table_schema</code>	<input type="checkbox"/>	

## Indexes

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>constraint_catalog</code>	string	<code>constraint_catalog</code>	<input type="checkbox"/>	
<code>constraint_name</code>	string	<code>constraint_name</code>	<input type="checkbox"/>	
<code>constraint_schema</code>	string	<code>constraint_schema</code>	<input type="checkbox"/>	
<code>index_name</code>	string	<code>index_name</code>	<input type="checkbox"/>	
<code>table_catalog</code>	string	<code>table_catalog</code>	<input type="checkbox"/>	
<code>table_name</code>	string	<code>table_name</code>	<input type="checkbox"/>	
<code>table_schema</code>	string	<code>table_schema</code>	<input type="checkbox"/>	
<code>type_desc</code>	string	<code>type_desc</code>	<input type="checkbox"/>	

## MetaDataCollections

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
CollectionName	string	CollectionName	<input type="checkbox"/>	
NumberOfIdentifierParts	int32	NumberOfIdentifierParts	<input type="checkbox"/>	
NumberOfRestrictions	int32	NumberOfRestrictions	<input type="checkbox"/>	

### ProcedureParameters

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
AS_LOCATOR	string	AS_LOCATOR	<input type="checkbox"/>	
CHARACTER_MAXIMUM_LENGTH	int32	CHARACTER_MAXIMUM_LENGTH	<input type="checkbox"/>	
CHARACTER_OCTET_LENGTH	int32	CHARACTER_OCTET_LENGTH	<input type="checkbox"/>	
CHARACTER_SET_CATALOG	string	CHARACTER_SET_CATALOG	<input type="checkbox"/>	
CHARACTER_SET_NAME	string	CHARACTER_SET_NAME	<input type="checkbox"/>	
CHARACTER_SET_SCHEMA	string	CHARACTER_SET_SCHEMA	<input type="checkbox"/>	
COLLATION_CATALOG	string	COLLATION_CATALOG	<input type="checkbox"/>	
COLLATION_NAME	string	COLLATION_NAME	<input type="checkbox"/>	
COLLATION_SCHEMA	string	COLLATION_SCHEMA	<input type="checkbox"/>	
DATA_TYPE	string	DATA_TYPE	<input type="checkbox"/>	
DATETIME_PRECISION	int16	DATETIME_PRECISION	<input type="checkbox"/>	
INTERVAL_PRECISION	int16	INTERVAL_PRECISION	<input type="checkbox"/>	
INTERVAL_TYPE	string	INTERVAL_TYPE	<input type="checkbox"/>	
IS_RESULT	string	IS_RESULT	<input type="checkbox"/>	
NUMERIC_PRECISION	byte	NUMERIC_PRECISION	<input type="checkbox"/>	
NUMERIC_PRECISION_RADIX	int16	NUMERIC_PRECISION_RADIX	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
NUMERIC_SCALE	int32	NUMERIC_SCALE	<input type="checkbox"/>	
ORDINAL_POSITION	int32	ORDINAL_POSITION	<input type="checkbox"/>	
PARAMETER_MODE	string	PARAMETER_MODE	<input type="checkbox"/>	
PARAMETER_NAME	string	PARAMETER_NAME	<input type="checkbox"/>	
SPECIFIC_CATALOG	string	SPECIFIC_CATALOG	<input type="checkbox"/>	
SPECIFIC_NAME	string	SPECIFIC_NAME	<input type="checkbox"/>	
SPECIFIC_SCHEMA	string	SPECIFIC_SCHEMA	<input type="checkbox"/>	

## Procedures

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
CREATED	datetime	CREATED	<input type="checkbox"/>	
LAST_ALTERED	datetime	LAST_ALTERED	<input type="checkbox"/>	
ROUTINE_CATALOG	string	ROUTINE_CATALOG	<input type="checkbox"/>	
ROUTINE_NAME	string	ROUTINE_NAME	<input type="checkbox"/>	
ROUTINE_SCHEMA	string	ROUTINE_SCHEMA	<input type="checkbox"/>	
ROUTINE_TYPE	string	ROUTINE_TYPE	<input type="checkbox"/>	
SPECIFIC_CATALOG	string	SPECIFIC_CATALOG	<input type="checkbox"/>	
SPECIFIC_NAME	string	SPECIFIC_NAME	<input type="checkbox"/>	
SPECIFIC_SCHEMA	string	SPECIFIC_SCHEMA	<input type="checkbox"/>	

## ReservedWords

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
ReservedWord	string	ReservedWord	<input type="checkbox"/>	

### Restrictions

Catalog: Database

Schema: Metadata

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

### View Columns

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

Name	Data Type	Label	Required	Documentation
COLLECTION_NAME	string(240)	Collection Name	<input type="checkbox"/>	
PARAMETER_NAME	string(240)	Parameter Name	<input type="checkbox"/>	
RESTRICTION_DEFAULT	string(240)	Restriction Default	<input type="checkbox"/>	
RESTRICTION_NAME	string(240)	Restriction Name	<input type="checkbox"/>	
RESTRICTION_NUMBER	int32	Restriction Number	<input type="checkbox"/>	
SCHEMA_NAME	string(240)	Schema	<input type="checkbox"/>	

### StructuredTypeMembers

Catalog: Database

Schema: Metadata

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

### View Columns

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

Name	Data Type	Label	Required	Documentation
CHARACTER_MAXIMUM_LENGTH	int32	CHARACTER_MAXIMUM_LENGTH	<input type="checkbox"/>	
CHARACTER_OCTET_LENGTH	int32	CHARACTER_OCTET_LENGTH	<input type="checkbox"/>	
CHARACTER_SET_CATALOG	string	CHARACTER_SET_CATALOG	<input type="checkbox"/>	
CHARACTER_SET_NAME	string	CHARACTER_SET_NAME	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
CHARACTER_SET_SCHEMA	string	CHARACTER_SET_SCHEMA	<input type="checkbox"/>	
COLLATION_CATALOG	string	COLLATION_CATALOG	<input type="checkbox"/>	
DATA_TYPE	string	DATA_TYPE	<input type="checkbox"/>	
DATETIME_PRECISION	int16	DATETIME_PRECISION	<input type="checkbox"/>	
IS_NULLABLE	string	IS_NULLABLE	<input type="checkbox"/>	
MEMBER_DEFAULT	string	MEMBER_DEFAULT	<input type="checkbox"/>	
MEMBER_NAME	string	MEMBER_NAME	<input type="checkbox"/>	
NUMERIC_PRECISION	byte	NUMERIC_PRECISION	<input type="checkbox"/>	
NUMERIC_PRECISION_RADIX	int16	NUMERIC_PRECISION_RADIX	<input type="checkbox"/>	
NUMERIC_SCALE	int32	NUMERIC_SCALE	<input type="checkbox"/>	
ORDINAL_POSITION	int32	ORDINAL_POSITION	<input type="checkbox"/>	
TYPE_CATALOG	string	TYPE_CATALOG	<input type="checkbox"/>	
TYPE_NAME	string	TYPE_NAME	<input type="checkbox"/>	
TYPE_SCHEMA	string	TYPE_SCHEMA	<input type="checkbox"/>	

## Tables

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	
TABLE_TYPE	string	TABLE_TYPE	<input type="checkbox"/>	

## UserDefinedTypes

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
assembly_name	string	assembly_name	<input type="checkbox"/>	
Create_Date	datetime	Create_Date	<input type="checkbox"/>	
culture_info	object	culture_info	<input type="checkbox"/>	
is_fixed_length	boolean	is_fixed_length	<input type="checkbox"/>	
max_length	int16	max_length	<input type="checkbox"/>	
Permission_set_desc	string	Permission_set_desc	<input type="checkbox"/>	
public_key	object	public_key	<input type="checkbox"/>	
udt_name	string	udt_name	<input type="checkbox"/>	
version_build	object	version_build	<input type="checkbox"/>	
version_major	object	version_major	<input type="checkbox"/>	
version_minor	object	version_minor	<input type="checkbox"/>	
version_revision	object	version_revision	<input type="checkbox"/>	

### Users

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
createdate	datetime	createdate	<input type="checkbox"/>	
uid	int16	uid	<input type="checkbox"/>	
updatedate	datetime	updatedate	<input type="checkbox"/>	
user_name	string	user_name	<input type="checkbox"/>	

### ViewColumns

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
COLUMN_NAME	string	COLUMN_NAME	<input type="checkbox"/>	
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	
VIEW_CATALOG	string	VIEW_CATALOG	<input type="checkbox"/>	
VIEW_NAME	string	VIEW_NAME	<input type="checkbox"/>	
VIEW_SCHEMA	string	VIEW_SCHEMA	<input type="checkbox"/>	

### Views

Catalog: Database

Schema: Metadata

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
CHECK_OPTION	string	CHECK_OPTION	<input type="checkbox"/>	
IS_UPDATABLE	string	IS_UPDATABLE	<input type="checkbox"/>	
TABLE_CATALOG	string	TABLE_CATALOG	<input type="checkbox"/>	
TABLE_NAME	string	TABLE_NAME	<input type="checkbox"/>	
TABLE_SCHEMA	string	TABLE_SCHEMA	<input type="checkbox"/>	

### 3.1.3 Schema: Native

#### 3.1.3.1 Tables

##### **NATIVEPLATFORMSCALARREQUESTS: SQL Server Native Platform Scalar Requests**

Direct access to native API.

Catalog: Database

Schema: Native

Alias: `npt`

Label: Native Platform Scalar Requests

Documentation:

The NativePlatformScalarRequests table provides direct access to the native protocol over an established connection to the SQL Server platform server. It will contain a new row for every row inserted with a native request in PAYLOAD\_TEXT with the results of unaltered forwarding of the payload to the SQL Server platform server.

Retrieve: true

Insert: true

Update: false

Delete: false

## View Columns

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

Name	Data Type	Label	Required	Documentation
BLOB_PREFERRED	boolean	BLOB Preferred	<input checked="" type="checkbox"/>	Indicator whether a BLOB result is preferred over text.
BOL_RESPONSE_CACHE_MAX_AGE_SEC	int32	Response Cache Maximum Age (sec)	<input type="checkbox"/>	Maximum age in seconds of Bridge Online response cache entries to be used.
CONTENT_TYPE	string(240)	Content Type	<input type="checkbox"/>	
DATE_ENDED	datetime	End Date	<input checked="" type="checkbox"/>	
DATE_STARTED	datetime	Start Date	<input checked="" type="checkbox"/>	
DRY_RUN	boolean	Run without Actions	<input checked="" type="checkbox"/>	
ERROR_MESSAGE_CODE	string(30)	Error Message Code	<input type="checkbox"/>	
ERROR_MESSAGE_TEXT	string(4000)	Error Message Text	<input type="checkbox"/>	
HTTP_DISK_CACHE_MAX_AGE_SEC	int32	HTTP Disk Cache Maximum Age (sec)	<input type="checkbox"/>	Maximum age in seconds of HTTP disk cache entries to be used.
HTTP_DISK_CACHE_SAVE	boolean	Save HTTP Disk Cache	<input type="checkbox"/>	Whether results can be stored in HTTP disk cache.
HTTP_DISK_CACHE_USE	boolean	Use HTTP Disk Cache	<input type="checkbox"/>	Whether results can be fetched from HTTP disk cache.
HTTP_MEMORY_CACHE_MAX_AGE_SEC	int32	HTTP Memory Cache Maximum Age (sec)	<input type="checkbox"/>	Maximum age in seconds of HTTP memory cache entries to be used.
HTTP_MEMORY_CACHE_SAVE	boolean	Save HTTP Memory Cache	<input type="checkbox"/>	Whether results can be stored in HTTP memory cache.
HTTP_MEMORY_CACHE_USE	boolean	Use HTTP Memory Cache	<input type="checkbox"/>	Whether results can be fetched from HTTP memory cache.
HTTP_METHOD	string(30)	HTTP Method	<input type="checkbox"/>	
ORIG_SYSTEM_GROUP	string(4000)	Original System Group	<input type="checkbox"/>	
ORIG_SYSTEM_REFERENCE	string(4000)	Original System Reference	<input type="checkbox"/>	
PAYLOAD_TEXT	string	Payload	<input type="checkbox"/>	
RESULT_BLOB	byte[]	Result BLOB	<input type="checkbox"/>	
RESULT_TEXT	string	Result Text	<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
SUCCESSFUL	boolean	Successful	<input checked="" type="checkbox"/>	
TIMEOUT_SEC	int32	Timeout (sec)	<input type="checkbox"/>	Timeout in seconds.
TRANSACTION_ID	int32	Transaction ID	<input checked="" type="checkbox"/>	Incrementing ID of the transaction.
URL	string(4000)	URL	<input type="checkbox"/>	

## 4 Catalog: master

### 4.1 Schemas

#### 4.1.1 spt\_fallback\_db

Catalog: master

Schema: dbo

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
dbid	int16		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
status	int16		<input type="checkbox"/>	
version	int16		<input type="checkbox"/>	
xdtm_ins	datetime		<input type="checkbox"/>	
xdtm_last_ins_upd	datetime		<input type="checkbox"/>	
xfallback_dbid	int16		<input type="checkbox"/>	
xserver_name	string		<input type="checkbox"/>	

#### 4.1.2 spt\_fallback\_dev

Catalog: master

Schema: dbo

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
high	int32		<input type="checkbox"/>	
low	int32		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
phyname	string		<input type="checkbox"/>	
status	int16		<input type="checkbox"/>	
xdtm_ins	datetime		<input type="checkbox"/>	
xdtm_last_ins_upd	datetime		<input type="checkbox"/>	
xfallback_drive	string		<input type="checkbox"/>	
xfallback_low	int32		<input type="checkbox"/>	
xserver_name	string		<input type="checkbox"/>	

#### 4.1.3 spt\_fallback\_usg

Catalog: master

Schema: dbo

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
dbid	int16		<input type="checkbox"/>	
lstart	int32		<input type="checkbox"/>	
segmap	int32		<input type="checkbox"/>	
sizepg	int32		<input type="checkbox"/>	
vstart	int32		<input type="checkbox"/>	
xdtm_ins	datetime		<input type="checkbox"/>	
xdtm_last_ins_upd	datetime		<input type="checkbox"/>	
xfallback_vstart	int32		<input type="checkbox"/>	
xserver_name	string		<input type="checkbox"/>	

#### 4.1.4 spt\_monitor

Catalog: master

Schema: dbo

The data in this table is partitioned per value of the column.

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

## Table Columns

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

Name	Data Type	Label	Required	Documentation
connections	int32		<input type="checkbox"/>	
cpu_busy	int32		<input type="checkbox"/>	
idle	int32		<input type="checkbox"/>	
io_busy	int32		<input type="checkbox"/>	
lastrun	datetime		<input type="checkbox"/>	
pack_errors	int32		<input type="checkbox"/>	
pack_received	int32		<input type="checkbox"/>	
pack_sent	int32		<input type="checkbox"/>	
total_errors	int32		<input type="checkbox"/>	
total_read	int32		<input type="checkbox"/>	
total_w write	int32		<input type="checkbox"/>	

### 4.1.5 spt\_values

Catalog: master

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
high	int32		<input type="checkbox"/>	
low	int32		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
number	int32		<input type="checkbox"/>	
status	int32		<input type="checkbox"/>	
type	string		<input type="checkbox"/>	

## 5 Catalog: msdb

### 5.1 Schemas

#### 5.1.1 autoadmin\_backup\_configuration\_summary

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

### View Columns

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

Name	Data Type	Label	Required	Documentation
DatabaseCount	int32		<input type="checkbox"/>	
DayOfWeek	string		<input type="checkbox"/>	
EncryptionAlgorithm	string		<input type="checkbox"/>	
IsAlwaysOn	boolean		<input type="checkbox"/>	
IsDropped	boolean		<input type="checkbox"/>	
IsEnabled	boolean		<input type="checkbox"/>	
ManagedBackupVersion	int32		<input type="checkbox"/>	
RetentionPeriod	int32		<input type="checkbox"/>	
SchedulingOption	string		<input type="checkbox"/>	

#### 5.1.2 backupfile

Catalog: msdb

Schema: dbo

Primary Keys: `backup_set_id`

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
backed_up_page_count	decimal		<input type="checkbox"/>	
backup_set_id	int32		<input type="checkbox"/>	
backup_size	decimal		<input type="checkbox"/>	
create_lsn	decimal		<input type="checkbox"/>	
differential_base_guid	guid		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
differential_base_lsn	decimal		<input type="checkbox"/>	
drop_lsn	decimal		<input type="checkbox"/>	
file_guid	guid		<input type="checkbox"/>	
file_number	decimal		<input type="checkbox"/>	
file_size	decimal		<input type="checkbox"/>	
file_type	char		<input type="checkbox"/>	
filegroup_guid	guid		<input type="checkbox"/>	
filegroup_name	string		<input type="checkbox"/>	
first_family_number	int16		<input type="checkbox"/>	
first_media_number	int16		<input type="checkbox"/>	
is_present	boolean		<input type="checkbox"/>	
is_readonly	boolean		<input type="checkbox"/>	
logical_name	string		<input type="checkbox"/>	
page_size	int32		<input type="checkbox"/>	
physical_drive	string		<input type="checkbox"/>	
physical_name	string		<input type="checkbox"/>	
read_only_lsn	decimal		<input type="checkbox"/>	
read_w_rite_lsn	decimal		<input type="checkbox"/>	
source_file_block_size	decimal		<input type="checkbox"/>	
state	int16		<input type="checkbox"/>	
state_desc	string		<input type="checkbox"/>	

### 5.1.3 backupmediafamily

Catalog: msdb

Schema: dbo

Primary Keys: media\_set\_id

The data in this table is partitioned per value of the column.

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

## Table Columns

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

Name	Data Type	Label	Required	Documentation
device_type	int16		<input type="checkbox"/>	
family_sequence_number	int16		<input type="checkbox"/>	
logical_device_name	string		<input type="checkbox"/>	
media_count	int32		<input type="checkbox"/>	
media_family_id	guid		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
media_set_id	int32		<input type="checkbox"/>	
mirror	int16		<input type="checkbox"/>	
physical_block_size	int32		<input type="checkbox"/>	
physical_device_name	string		<input type="checkbox"/>	

#### 5.1.4 backupmediaset

Catalog: msdb

Schema: dbo

Primary Keys: media\_set\_id

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
description	string		<input type="checkbox"/>	
is_compressed	boolean		<input type="checkbox"/>	
is_encrypted	boolean		<input type="checkbox"/>	
is_password_protected	boolean		<input type="checkbox"/>	
media_family_count	int16		<input type="checkbox"/>	
media_set_id	int32		<input type="checkbox"/>	
media_uuid	guid		<input type="checkbox"/>	
mirror_count	int16		<input type="checkbox"/>	
MTF_major_version	int16		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
software_name	string		<input type="checkbox"/>	
software_vendor_id	int32		<input type="checkbox"/>	

#### 5.1.5 backupset

Catalog: msdb

Schema: dbo

Primary Keys: backup\_set\_id

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
<code>backup_finish_date</code>	datetime		<input type="checkbox"/>	
<code>backup_set_id</code>	int32		<input type="checkbox"/>	
<code>backup_set_uuid</code>	guid		<input type="checkbox"/>	
<code>backup_size</code>	decimal		<input type="checkbox"/>	
<code>backup_start_date</code>	datetime		<input type="checkbox"/>	
<code>begins_log_chain</code>	boolean		<input type="checkbox"/>	
<code>catalog_family_number</code>	int16		<input type="checkbox"/>	
<code>catalog_media_number</code>	int16		<input type="checkbox"/>	
<code>checkpoint_lsn</code>	decimal		<input type="checkbox"/>	
<code>code_page</code>	int16		<input type="checkbox"/>	
<code>collation_name</code>	string		<input type="checkbox"/>	
<code>compatibility_level</code>	int16		<input type="checkbox"/>	
<code>compressed_backup_size</code>	decimal		<input type="checkbox"/>	
<code>database_backup_lsn</code>	decimal		<input type="checkbox"/>	
<code>database_creation_date</code>	datetime		<input type="checkbox"/>	
<code>database_guid</code>	guid		<input type="checkbox"/>	
<code>database_name</code>	string		<input type="checkbox"/>	
<code>database_version</code>	int32		<input type="checkbox"/>	
<code>description</code>	string		<input type="checkbox"/>	
<code>differential_base_guid</code>	guid		<input type="checkbox"/>	
<code>differential_base_lsn</code>	decimal		<input type="checkbox"/>	
<code>encryptor_thumbprint</code>	byte[]		<input type="checkbox"/>	
<code>encryptor_type</code>	string		<input type="checkbox"/>	
<code>expiration_date</code>	datetime		<input type="checkbox"/>	
<code>family_guid</code>	guid		<input type="checkbox"/>	
<code>first_family_number</code>	int16		<input type="checkbox"/>	
<code>first_lsn</code>	decimal		<input type="checkbox"/>	
<code>first_media_number</code>	int16		<input type="checkbox"/>	
<code>first_recovery_fork_guid</code>	guid		<input type="checkbox"/>	
<code>flags</code>	int32		<input type="checkbox"/>	
<code>fork_point_lsn</code>	decimal		<input type="checkbox"/>	
<code>has_backup_checksums</code>	boolean		<input type="checkbox"/>	
<code>has_bulk_logged_data</code>	boolean		<input type="checkbox"/>	
<code>has_incomplete_metadata</code>	boolean		<input type="checkbox"/>	
<code>is_copy_only</code>	boolean		<input type="checkbox"/>	
<code>is_damaged</code>	boolean		<input type="checkbox"/>	
<code>is_force_offline</code>	boolean		<input type="checkbox"/>	
<code>is_password_protected</code>	boolean		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
is_readonly	boolean		<input type="checkbox"/>	
is_single_user	boolean		<input type="checkbox"/>	
is_snapshot	boolean		<input type="checkbox"/>	
key_algorithm	string		<input type="checkbox"/>	
last_family_number	int16		<input type="checkbox"/>	
last_lsn	decimal		<input type="checkbox"/>	
last_media_number	int16		<input type="checkbox"/>	
last_recovery_fork_guid	guid		<input type="checkbox"/>	
machine_name	string		<input type="checkbox"/>	
media_set_id	int32		<input type="checkbox"/>	
mtf_minor_version	int16		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
position	int32		<input type="checkbox"/>	
recovery_model	string		<input type="checkbox"/>	
server_name	string		<input type="checkbox"/>	
software_build_version	int16		<input type="checkbox"/>	
software_major_version	int16		<input type="checkbox"/>	
software_minor_version	int16		<input type="checkbox"/>	
software_vendor_id	int32		<input type="checkbox"/>	
sort_order	int16		<input type="checkbox"/>	
time_zone	int16		<input type="checkbox"/>	
type	char		<input type="checkbox"/>	
unicode_compare_style	int32		<input type="checkbox"/>	
unicode_locale	int32		<input type="checkbox"/>	
user_name	string		<input type="checkbox"/>	

### 5.1.6 dm\_hadr\_automatic\_seeding\_history

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## Table Columns

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

Name	Data Type	Label	Required	Documentation
ag_db_id	guid		<input type="checkbox"/>	
ag_id	guid		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
ag_remote_replica_id	guid		<input type="checkbox"/>	
completion_time	datetime		<input type="checkbox"/>	
current_state	string		<input type="checkbox"/>	
error_code	int32		<input type="checkbox"/>	
failure_state	int32		<input type="checkbox"/>	
failure_state_desc	string		<input type="checkbox"/>	
is_source	boolean		<input type="checkbox"/>	
number_of_attempts	int32		<input type="checkbox"/>	
operation_id	guid		<input type="checkbox"/>	
performed_seeding	boolean		<input type="checkbox"/>	
start_time	datetime		<input type="checkbox"/>	

### 5.1.7 logmarkhistory

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
database_name	string		<input type="checkbox"/>	
description	string		<input type="checkbox"/>	
lsn	decimal		<input type="checkbox"/>	
mark_name	string		<input type="checkbox"/>	
mark_time	datetime		<input type="checkbox"/>	
user_name	string		<input type="checkbox"/>	

### 5.1.8 restorefile

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

### Table Columns

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

Name	Data Type	Label	Required	Documentation
<code>destination_phys_drive</code>	string		<input type="checkbox"/>	
<code>destination_phys_name</code>	string		<input type="checkbox"/>	
<code>file_number</code>	decimal		<input type="checkbox"/>	
<code>restore_history_id</code>	int32		<input type="checkbox"/>	

### 5.1.9 restorefilegroup

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## Table Columns

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

Name	Data Type	Label	Required	Documentation
<code>filegroup_name</code>	string		<input type="checkbox"/>	
<code>restore_history_id</code>	int32		<input type="checkbox"/>	

### 5.1.10 restorehistory

Catalog: msdb

Schema: dbo

Primary Keys: `restore_history_id`

The data in this table is partitioned per value of the column.

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

## Table Columns

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

Name	Data Type	Label	Required	Documentation
<code>backup_set_id</code>	int32		<input type="checkbox"/>	
<code>destination_database_name</code>	string		<input type="checkbox"/>	
<code>device_count</code>	int16		<input type="checkbox"/>	
<code>recovery</code>	boolean		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
replace	boolean		<input type="checkbox"/>	
restart	boolean		<input type="checkbox"/>	
restore_date	datetime		<input type="checkbox"/>	
restore_history_id	int32		<input type="checkbox"/>	
restore_type	char		<input type="checkbox"/>	
stop_at	datetime		<input type="checkbox"/>	
stop_at_mark_name	string		<input type="checkbox"/>	
stop_before	boolean		<input type="checkbox"/>	
user_name	string		<input type="checkbox"/>	

### 5.1.11 suspect\_pages

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## Table Columns

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

Name	Data Type	Label	Required	Documentation
database_id	int32		<input type="checkbox"/>	
error_count	int32		<input type="checkbox"/>	
event_type	int32		<input type="checkbox"/>	
file_id	int32		<input type="checkbox"/>	
last_update_date	datetime		<input type="checkbox"/>	
page_id	int64		<input type="checkbox"/>	

### 5.1.12 sysdac\_instances

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
created_by	string		<input type="checkbox"/>	
database_name	string		<input type="checkbox"/>	
date_created	datetime		<input type="checkbox"/>	
description	string		<input type="checkbox"/>	
instance_id	guid		<input type="checkbox"/>	
instance_name	string		<input type="checkbox"/>	
type_name	string		<input type="checkbox"/>	
type_stream	byte[]		<input type="checkbox"/>	
type_version	string		<input type="checkbox"/>	

### 5.1.13 syspolicy\_conditions

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
condition_id	int32		<input type="checkbox"/>	
created_by	string		<input type="checkbox"/>	
date_created	datetime		<input type="checkbox"/>	
date_modified	datetime		<input type="checkbox"/>	
description	string		<input type="checkbox"/>	
expression	string		<input type="checkbox"/>	
facet	string		<input type="checkbox"/>	
is_name_condition	int16		<input type="checkbox"/>	
is_system	boolean		<input type="checkbox"/>	
modified_by	string		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
obj_name	string		<input type="checkbox"/>	

### 5.1.14 syspolicy\_configuration

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
current_value	string		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	

### 5.1.15 syspolicy\_object\_sets

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
facet_id	int32		<input type="checkbox"/>	
facet_name	string		<input type="checkbox"/>	
is_system	boolean		<input type="checkbox"/>	
object_set_id	int32		<input type="checkbox"/>	
object_set_name	string		<input type="checkbox"/>	

### 5.1.16 syspolicy\_policies

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
condition_id	int32		<input type="checkbox"/>	

Name	Data Type	Label	Required	Documentation
created_by	string		<input type="checkbox"/>	
date_created	datetime		<input type="checkbox"/>	
date_modified	datetime		<input type="checkbox"/>	
description	string		<input type="checkbox"/>	
execution_mode	int32		<input type="checkbox"/>	
help_link	string		<input type="checkbox"/>	
help_text	string		<input type="checkbox"/>	
is_enabled	boolean		<input type="checkbox"/>	
is_system	boolean		<input type="checkbox"/>	
job_id	guid		<input type="checkbox"/>	
modified_by	string		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
object_set_id	int32		<input type="checkbox"/>	
policy_category_id	int32		<input type="checkbox"/>	
policy_id	int32		<input type="checkbox"/>	
root_condition_id	int32		<input type="checkbox"/>	
schedule_uid	guid		<input type="checkbox"/>	

### 5.1.17 syspolicy\_policy\_categories

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
mandate_database_subscriptions	boolean		<input type="checkbox"/>	
name	string		<input type="checkbox"/>	
policy_category_id	int32		<input type="checkbox"/>	

### 5.1.18 syspolicy\_policy\_category\_subscriptions

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>policy_category_id</code>	int32		<input type="checkbox"/>	
<code>policy_category_subscription_id</code>	int32		<input type="checkbox"/>	
<code>target_object</code>	string		<input type="checkbox"/>	
<code>target_type</code>	string		<input type="checkbox"/>	

### 5.1.19 `syspolicy_policy_execution_history`

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
<code>end_date</code>	datetime		<input type="checkbox"/>	
<code>exception</code>	string		<input type="checkbox"/>	
<code>exception_message</code>	string		<input type="checkbox"/>	
<code>history_id</code>	int64		<input type="checkbox"/>	
<code>policy_id</code>	int32		<input type="checkbox"/>	
<code>result</code>	boolean		<input type="checkbox"/>	
<code>start_date</code>	datetime		<input type="checkbox"/>	

### 5.1.20 `syspolicy_policy_execution_history_details`

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
detail_id	int64		<input type="checkbox"/>	
exception	string		<input type="checkbox"/>	
exception_message	string		<input type="checkbox"/>	
execution_date	datetime		<input type="checkbox"/>	
history_id	int64		<input type="checkbox"/>	
result	boolean		<input type="checkbox"/>	
result_detail	string		<input type="checkbox"/>	
target_query_expression	string		<input type="checkbox"/>	

### 5.1.21 syspolicy\_system\_health\_state

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
health_state_id	int64		<input type="checkbox"/>	
last_run_date	datetime		<input type="checkbox"/>	
policy_id	int32		<input type="checkbox"/>	
result	boolean		<input type="checkbox"/>	
target_query_expression	string		<input type="checkbox"/>	
target_query_expression_with_id	string		<input type="checkbox"/>	

### 5.1.22 syspolicy\_target\_set\_levels

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
condition_id	int32		<input type="checkbox"/>	
level_name	string		<input type="checkbox"/>	
target_set_id	int32		<input type="checkbox"/>	
target_set_level_id	int32		<input type="checkbox"/>	
type_skeleton	string		<input type="checkbox"/>	

### 5.1.23 syspolicy\_target\_sets

Catalog: msdb

Schema: dbo

The data in this table is partitioned per value of the column.

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

## View Columns

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

Name	Data Type	Label	Required	Documentation
enabled	boolean		<input type="checkbox"/>	
object_set_id	int32		<input type="checkbox"/>	
target_set_id	int32		<input type="checkbox"/>	
type	string		<input type="checkbox"/>	
type_skeleton	string		<input type="checkbox"/>	

# Index

## - A -

ag\_db\_id 31  
 ag\_id 31  
 ag\_remote\_replica\_id 31  
 AllColumns 10  
 analysis-enforce-row-uniqueness 2  
 AS\_LOCATOR 17  
 assembly\_name 20  
 autoadmin\_backup\_configuration\_summary 27

## - B -

backed\_up\_page\_count 27  
 backup\_finish\_date 29  
 backup\_set\_id 27, 29, 33  
 backup\_set\_uuid 29  
 backup\_size 27, 29  
 backup\_start\_date 29  
 backupfile 27  
 backupmediafamily 28  
 backupmediaset 29  
 backupset 29  
 begins\_log\_chain 29  
 BLOB Preferred 22  
 BLOB\_PREFERRED 22  
 BOL\_RESPONSE\_CACHE\_MAX\_AGE\_SEC 22  
 bulk-delete-page-size-rows 2  
 bulk-insert-page-size-bytes 2  
 bulk-insert-page-size-rows 2  
 bulk-insert-timeout-sec 2

## - C -

catalog\_family\_number 29  
 catalog\_media\_number 29  
 CHARACTER\_MAXIMUM\_LENGTH 10, 11, 17, 19  
 CHARACTER\_OCTET\_LENGTH 10, 11, 17, 19  
 CHARACTER\_SET\_CATALOG 10, 11, 17, 19  
 CHARACTER\_SET\_NAME 10, 11, 17, 19  
 CHARACTER\_SET\_SCHEMA 10, 11, 17, 19  
 CHECK\_OPTION 22  
 checkpoint\_lsn 29  
 code\_page 29  
 COLLATION\_CATALOG 10, 11, 17, 19  
 collation\_name 17, 29

COLLATION\_SCHEMA 17  
 Collection Name 5, 9, 19  
 COLLECTION\_NAME 5, 9, 19  
 CollectionName 16  
 Collections 5  
 Column Size 7, 14  
 COLUMN\_DEFAULT 10, 11  
 COLUMN\_NAME 10, 11, 15, 21  
 COLUMN\_SIZE 7, 14  
 Columns 11  
 ColumnSetColumns 11  
 command-timeout-sec 2  
 compatibility\_level 29  
 completion\_time 31  
 Composite Identifier Separator Pattern 6, 13  
 COMPOSITE\_IDENTIFIER\_SEPERATOR\_PATTERN 6, 13  
 compressed\_backup\_size 29  
 condition\_id 35, 36, 39  
 Connection Time-out (sec) 8  
 CONNECTION\_TIMEOUT\_SEC 8  
 connections 25  
 connection-string-async-add 2  
 connection-string-async-value 2  
 connection-string-multiple-active-result-sets-add 2  
 connection-string-multiple-active-result-sets-value 2  
 constraint\_catalog 15, 16  
 constraint\_name 15, 16  
 constraint\_schema 15, 16  
 CONSTRAINT\_TYPE 15  
 Content Type 22  
 CONTENT\_TYPE 22  
 COUNT\_TIMES\_USED 8  
 cpu\_busy 25  
 Create Format 7, 14  
 Create Parameters 7, 14  
 Create\_Date 12, 20  
 CREATE\_FORMAT 7, 14  
 create\_lsn 27  
 CREATE\_PARAMETERS 7, 14  
 CREATED 18  
 created\_by 34, 35, 36  
 CREATED\_UTC 8  
 createdate 21  
 culture\_info 20  
 Current Context Description 8  
 Current Context Natural Key 8  
 Current Context User Log On Code 8  
 CURRENT\_CONTEXT\_DESCRIPTION 8  
 CURRENT\_CONTEXT\_NATURAL\_KEY 8  
 CURRENT\_CONTEXT\_USER\_LOG\_ON\_CODE 8

current\_state 31  
current\_value 35

## - D -

Data Source Information 6  
Data Type 7, 14  
Data Types 7  
DATA\_TYPE 7, 10, 11, 14, 17, 19  
DATABASE 8  
database\_backup\_lsn 29  
database\_creation\_date 29  
database\_guid 29  
database\_id 34  
database\_name 12, 29, 32, 34  
database\_version 29  
DatabaseCount 27  
Databases 12  
DataSourceInformation 6, 13  
DataTypes 7, 14  
Date Created 8  
date\_created 34, 35, 36  
DATE\_ENDED 22  
date\_modified 35, 36  
DATE\_STARTED 22  
DATETIME\_PRECISION 10, 11, 17, 19  
DayOfWeek 27  
dbid 12, 24, 25  
destination\_database\_name 33  
destination\_phys\_drive 32  
destination\_phys\_name 32  
detail\_id 38  
device\_count 33  
device\_type 28  
differential\_base\_guid 27, 29  
differential\_base\_lsn 27, 29  
dm\_hadr\_automatic\_seeding\_history 31  
Driver 1  
drop\_lsn 27  
DRY\_RUN 22  
Duration Used (ms) 8  
DURATION\_USED\_MS 8

## - E -

enabled 40  
EncryptionAlgorithm 27  
encryptor\_thumbprint 29  
encryptor\_type 29  
End Date 22

end\_date 38  
Error Message Code 22  
Error Message Text 22  
error\_code 31  
error\_count 34  
ERROR\_MESSAGE\_CODE 22  
ERROR\_MESSAGE\_TEXT 22  
event\_type 34  
exception 38  
exception\_message 38  
execution\_date 38  
execution\_mode 36  
expiration\_date 29  
expression 35

## - F -

facet 35  
facet\_id 36  
facet\_name 36  
failure\_state 31  
failure\_state\_desc 31  
family\_guid 29  
family\_sequence\_number 28  
file\_guid 27  
file\_id 34  
file\_number 27, 32  
file\_size 27  
file\_type 27  
filegroup\_guid 27  
filegroup\_name 27, 33  
first\_family\_number 27, 29  
first\_lsn 29  
first\_media\_number 27, 29  
first\_recovery\_fork\_guid 29  
flags 29  
force-case-sensitive-identifiers 2  
forced-casing-identifiers 2  
ForeignKeys 15  
fork\_point\_lsn 29

## - G -

Group by Behavior 6, 13  
GROUP\_BY\_BEHAVIOR 6, 13

## - H -

has\_backup\_checksums 29  
has\_bulk\_logged\_data 29

has\_incomplete\_metadata 29  
 health\_state\_id 39  
 help\_link 36  
 help\_text 36  
 high 24, 26  
 history\_id 38  
 HTTP Disk Cache Maximum Age (sec) 22  
 HTTP Memory Cache Maximum Age (sec) 22  
 HTTP Method 22  
 HTTP\_DISK\_CACHE\_MAX\_AGE\_SEC 22  
 HTTP\_DISK\_CACHE\_SAVE 22  
 HTTP\_DISK\_CACHE\_USE 22  
 HTTP\_MEMORY\_CACHE\_MAX\_AGE\_SEC 22  
 HTTP\_MEMORY\_CACHE\_SAVE 22  
 HTTP\_MEMORY\_CACHE\_USE 22  
 HTTP\_METHOD 22

## - I -

Identifier Case 6, 13  
 Identifier Pattern 6, 13  
 IDENTIFIER\_CASE 6, 13  
 IDENTIFIER\_PATTERN 6, 13  
 idle 25  
 index\_name 15, 16  
 IndexColumns 15  
 Indexes 16  
 INITIALLY\_DEFERRED 15  
 instance\_id 34  
 instance\_name 34  
 INTERVAL\_PRECISION 17  
 INTERVAL\_TYPE 17  
 invantive-sql-correct-invalid-date 2  
 invantive-sql-forward-filters-to-data-containers 2  
 invantive-sql-shuffle-fetch-results-data-containers 2  
 invantive-use-cache 2  
 io\_busy 25  
 Is Auto-incrementable 7, 14  
 Is Best Match 7, 14  
 Is Case-sensitive 7, 14  
 Is Concurrency Type 7, 14  
 Is Fixed Length 7, 14  
 Is Fixed Precision Scale 7, 14  
 Is Free 8  
 Is Literal Supported 7, 14  
 Is Long 7, 14  
 Is Nullable 7, 14  
 Is Searchable 7, 14  
 Is Searchable with Like 7, 14  
 Is Unsigned 7, 14  
 IS\_AUTOINCREMENTABLE 7, 14

IS\_BEST\_MATCH 7, 14  
 IS\_CASE\_SENSITIVE 7, 14  
 IS\_COLUMN\_SET 10, 11  
 is\_compressed 29  
 IS\_CONCURRENCY\_TYPE 7, 14  
 is\_copy\_only 29  
 is\_damaged 29  
 IS\_DEFERRABLE 15  
 is\_enabled 36  
 is\_encrypted 29  
 IS\_FILESTREAM 10, 11  
 is\_fixed\_length 7, 14, 20  
 IS\_FIXED\_PRECISION\_SCALE 7, 14  
 is\_force\_offline 29  
 IS\_FREE 8  
 IS\_LITERAL\_SUPPORTED 7, 14  
 IS\_LONG 7, 14  
 is\_name\_condition 35  
 IS\_NULLABLE 7, 10, 11, 14, 19  
 is\_password\_protected 29  
 is\_present 27  
 is\_readonly 27, 29  
 IS\_RESULT 17  
 IS\_SEARCHABLE 7, 14  
 IS\_SEARCHABLE\_WITH\_LIKE 7, 14  
 is\_single\_user 29  
 is\_snapshot 29  
 is\_source 31  
 IS\_SPARSE 10, 11  
 is\_system 35, 36  
 IS\_UNSIGNED 7, 14  
 IS\_UPDATABLE 22  
 IsAlwaysOn 27  
 IsDropped 27  
 IsEnabled 27

## - J -

job\_id 36

## - K -

key\_algorithm 29  
 KeyType 15

## - L -

Last Use Duration (ms) 8  
 Last Use End 8  
 Last Use Start 8

LAST\_ALTERED 18  
 last\_family\_number 29  
 last\_lsn 29  
 last\_media\_number 29  
 last\_recovery\_fork\_guid 29  
 last\_run\_date 39  
 last\_update\_date 34  
 LAST\_USE\_DURATION\_MS 8  
 LAST\_USE\_END\_UTC 8  
 LAST\_USE\_START\_UTC 8  
 lastrun 25  
 level\_name 39  
 Literal Prefix 7, 14  
 Literal Suffix 7, 14  
 LITERAL\_PREFIX 7, 14  
 LITERAL\_SUFFIX 7, 14  
 logical\_device\_name 28  
 logical\_name 27  
 logmarkhistory 32  
 log-native-calls-to-disk 2  
 log-native-calls-to-trace 2  
 low 24, 26  
 lsn 32  
 lstart 25

## - M -

machine\_name 29  
 ManagedBackupVersion 27  
 mandate\_database\_subscriptions 37  
 mark\_name 32  
 mark\_time 32  
 max\_length 20  
 Maximum Scale 7, 14  
 MAXIMUM\_SCALE 7, 14  
 maximum-length-identifiers 2  
 maximum-number-of-pooled-connections 2  
 maximum-sleep-acquire-pooled-connection-ms 2  
 maximum-sleep-acquire-unpooled-connection-ms 2  
 max-url-length-accepted 2  
 max-url-length-desired 2  
 media\_count 28  
 media\_family\_count 29  
 media\_family\_id 28  
 media\_set\_id 28, 29  
 media\_uuid 29  
 MEMBER\_DEFAULT 19  
 MEMBER\_NAME 19  
 Metadata Collections 5  
 MetaDataCollections 16  
 Minimum Scale 7, 14

MINIMUM\_SCALE 7, 14  
 minimum-command-timeout-sec 2  
 minimum-connection-timeout-sec 2  
 mirror 28  
 mirror\_count 29  
 modified\_by 35, 36  
 mssql 1  
 MTF\_major\_version 29  
 mtf\_minor\_version 29

## - N -

name 24, 26, 29, 35, 36, 37  
 Native Data Type 7, 14  
 Native Platform Scalar Requests 22  
 NATIVE\_DATA\_TYPE 7, 14  
 NATIVEPLATFORMSCALARREQUESTS 22  
 npt 22  
 number 26  
 Number of Identifier Parts 5  
 Number of Restrictions 5  
 Number of Times Used 8  
 number\_of\_attempts 31  
 NUMBER\_OF\_IDENTIFIER\_PARTS 5  
 NUMBER\_OF\_RESTRICTIONS 5  
 NumberOfIdentifierParts 16  
 NumberOfRestrictions 16  
 NUMERIC\_PRECISION 10, 11, 17, 19  
 NUMERIC\_PRECISION\_RADIX 10, 11, 17, 19  
 NUMERIC\_SCALE 10, 11, 17, 19

## - O -

obj\_name 35  
 object\_set\_id 36, 40  
 object\_set\_name 36  
 ON\_CLOSE\_SQL\_DURATION\_MS 8  
 ON\_CLOSE\_SQL\_START\_UTC 8  
 ON\_CLOSE\_SQL\_STATEMENT 8  
 ON\_OPEN\_SQL\_DURATION\_MS 8  
 ON\_OPEN\_SQL\_START\_UTC 8  
 ON\_OPEN\_SQL\_STATEMENT 8  
 on-close-sql 2  
 on-open-sql 2  
 open-connection-interval-sec 2  
 open-connection-retries 2  
 operation\_id 31  
 Order by Columns in Select 6, 13  
 ORDER\_BY\_COLUMNS\_IN\_SELECT 6, 13  
 ORDINAL\_POSITION 10, 11, 15, 17, 19

ORIG\_SYSTEM\_GROUP 22  
 ORIG\_SYSTEM\_REFERENCE 22  
 Original System Group 22  
 Original System Reference 22

## - P -

pack\_errors 25  
 pack\_received 25  
 pack\_sent 25  
 page\_id 34  
 page\_size 27  
 Parameter Marker Format 6, 13  
 Parameter Marker Pattern 6, 13  
 Parameter Name 9, 19  
 Parameter Name Maximum Length 6, 13  
 Parameter Name Pattern 6, 13  
 PARAMETER\_MARKER\_FORMAT 6, 13  
 PARAMETER\_MARKER\_PATTERN 6, 13  
 PARAMETER\_MODE 17  
 PARAMETER\_NAME 9, 17, 19  
 PARAMETER\_NAME\_MAX\_LENGTH 6, 13  
 PARAMETER\_NAME\_PATTERN 6, 13  
 partition-slot-based-rate-limit-length-ms 2  
 partition-slot-based-rate-limit-slots 2  
 Payload 22  
 PAYLOAD\_TEXT 22  
 performed\_seeding 31  
 Permission\_set\_desc 20  
 phyname 24  
 physical\_block\_size 28  
 physical\_device\_name 28  
 physical\_drive 27  
 physical\_name 27  
 policy\_category\_id 36, 37  
 policy\_category\_subscription\_id 37  
 policy\_id 36, 38, 39  
 Pooled Connections 8  
 pooled-connection-monitor-interval-sec 2  
 pooled-connection-release-obsolete-interval-sec 2  
 PooledConnections 8  
 pooled-connections-monitoring 2  
 Population Mechanism 5  
 Population String 5  
 POPULATION\_MECHANISM 5  
 POPULATION\_STRING 5  
 position 29  
 preferred-number-of-pooled-connections 2  
 prefix-bind-variable-in-list 2  
 prefix-bind-variable-normal 2  
 prefix-renamed-columns 2

pre-request-delay-ms 2  
 Previous Context Descriptions 8  
 PREVIOUS\_CONTEXT\_DESCRIPTIONS 8  
 ProcedureParameters 17  
 Procedures 18  
 Product Name 6, 13  
 Product Version 6, 13  
 Product Version Normalized 6, 13  
 PRODUCT\_NAME 6, 13  
 PRODUCT\_VERSION 6, 13  
 PRODUCT\_VERSION\_NORMALIZED 6, 13  
 Provider Database Type 7, 14  
 PROVIDER\_DB\_TYPE 7, 14  
 public\_key 20

## - Q -

Quoted Identifier Case 6, 13  
 Quoted Identifier Pattern 6, 13  
 QUOTED\_IDENTIFIER\_CASE 6, 13  
 QUOTED\_IDENTIFIER\_PATTERN 6, 13

## - R -

read\_only\_isn 27  
 read\_write\_isn 27  
 recovery 33  
 recovery\_model 29  
 replace 33  
 requested-page-size 2  
 requests-parallel-max 2  
 ReservedWord 18  
 ReservedWords 18  
 Response Cache Maximum Age (sec) 22  
 restart 33  
 restore\_date 33  
 restore\_history\_id 32, 33  
 restore\_type 33  
 restorefile 32  
 restorefilegroup 33  
 restorehistory 33  
 Restriction Default 9, 19  
 Restriction Name 9, 19  
 Restriction Number 9, 19  
 RESTRICTION\_DEFAULT 9, 19  
 RESTRICTION\_NAME 9, 19  
 RESTRICTION\_NUMBER 9, 19  
 Restrictions 9, 19  
 result 38, 39  
 Result BLOB 22

Result Text 22  
 RESULT\_BLOB 22  
 result\_detail 38  
 RESULT\_TEXT 22  
 RetentionPeriod 27  
 root\_condition\_id 36  
 ROUTINE\_CATALOG 18  
 ROUTINE\_NAME 18  
 ROUTINE\_SCHEMA 18  
 ROUTINE\_TYPE 18  
 Run without Actions 22

## - S -

Save HTTP Disk Cache 22  
 Save HTTP Memory Cache 22  
 schedule\_uid 36  
 SchedulingOption 27  
 Schema 5, 7, 9, 14, 19  
 SCHEMA\_NAME 5, 7, 9, 14, 19  
 segmap 25  
 Server Version 8  
 server\_name 29  
 SERVER\_VERSION 8  
 sizepg 25  
 slot-based-rate-limit-length-ms 2  
 slot-based-rate-limit-slots 2  
 software\_build\_version 29  
 software\_major\_version 29  
 software\_minor\_version 29  
 software\_name 29  
 software\_vendor\_id 29  
 sort\_order 29  
 source\_file\_block\_size 27  
 SPECIFIC\_CATALOG 17, 18  
 SPECIFIC\_NAME 17, 18  
 SPECIFIC\_SCHEMA 17, 18  
 spt\_fallback\_db 24  
 spt\_fallback\_dev 24  
 spt\_fallback\_usg 25  
 spt\_monitor 25  
 spt\_values 26  
 SQL On Close Duration (ms) 8  
 SQL On Close Start (UTC) 8  
 SQL On Open Duration (ms) 8  
 SQL On Open Start (UTC) 8  
 SQL On Open Statement 8  
 SQL Server 1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40  
 SqlServer 1

standardize-identifiers 2  
 standardize-identifiers-casing 2  
 Start Date 22  
 start\_date 38  
 start\_time 31  
 state 27  
 state\_desc 27  
 Statement Separator Pattern 6, 13  
 STATEMENT\_SEPARATOR\_PATTERN 6, 13  
 status 24, 26  
 stop\_at 33  
 stop\_at\_mark\_name 33  
 stop\_before 33  
 String Literal Pattern 6, 13  
 STRING\_LITERAL\_PATTERN 6, 13  
 StructuredTypeMembers 19  
 Successful 22  
 SUCCESSFUL 22  
 Supported Join Operators 6, 13  
 SUPPORTED\_JOIN\_OPERATORS 6, 13  
 suspect\_pages 34  
 sysdac\_instances 34  
 syspolicy\_conditions 35  
 syspolicy\_configuration 35  
 syspolicy\_object\_sets 36  
 syspolicy\_policies 36  
 syspolicy\_policy\_categories 37  
 syspolicy\_policy\_category\_subscriptions 37  
 syspolicy\_policy\_execution\_history 38  
 syspolicy\_policy\_execution\_history\_details 38  
 syspolicy\_system\_health\_state 39  
 syspolicy\_target\_set\_levels 39  
 syspolicy\_target\_sets 40

## - T -

TABLE\_CATALOG 10, 11, 15, 16, 20, 21, 22  
 TABLE\_NAME 10, 11, 15, 16, 20, 21, 22  
 TABLE\_SCHEMA 10, 11, 15, 16, 20, 21, 22  
 TABLE\_TYPE 20  
 Tables 20  
 target\_object 37  
 target\_query\_expression 38, 39  
 target\_query\_expression\_with\_id 39  
 target\_set\_id 39, 40  
 target\_set\_level\_id 39  
 target\_type 37  
 time\_zone 29  
 Timeout (sec) 22  
 TIMEOUT\_SEC 22  
 total\_errors 25

total_read	25	xfallback_low	24
total_write	25	xfallback_vstart	25
Transaction ID	22	xserver_name	24, 25
TRANSACTION_ID	22		
type	26, 29, 40		
Type Name	7, 14		
TYPE_CATALOG	19		
type_desc	16		
type_name	7, 14, 19, 34		
TYPE_SCHEMA	19		
type_skeleton	39, 40		
type_stream	34		
type_version	34		

## - U -

udt_name	20
uid	21
unicode_compare_style	29
unicode_locale	29
updatedate	21
URL	22
Usage (%)	8
USAGE_PERCENTAGE	8
Use HTTP Disk Cache	22
Use HTTP Memory Cache	22
user_name	21, 29, 32, 33
UserDefinedTypes	20
Users	21

## - V -

version	24
version_build	20
version_major	20
version_minor	20
version_revision	20
VIEW_CATALOG	21
VIEW_NAME	21
VIEW_SCHEMA	21
ViewColumns	21
Views	22
vstart	25

## - X -

xdtm_ins	24, 25
xdtm_last_ins_upd	24, 25
xfallback_dbid	24
xfallback_drive	24



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