

Outlook Data Model

for use with Invantive SQL

24.0

invantive
the SQL company

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

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1 SQL Driver for Outlook API

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

Microsoft Outlook data such as contacts and calendar items.

The Outlook driver covers 6 tables and 272 columns.

Outlook API Clients

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

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

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

Specifications

The SQL driver for Outlook supports partitioning: data from multiple companies are all listed together in one table. The value of the column indicates which company the data belongs to.

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

The configuration can be changed using various attributes from the database definition, on log on and during use. A full list of configuration options is listed in the driver attributes 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 Outlook the comparison of two texts is case sensitive by default.

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

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

Alias: `outlook`

Recommended alias: `olk`

Technical support (URL): https://forums.invantive.com

Function documentation (URL): https://cloud.invantive.com/data-models

Function support (URL): https://forums.invantive.com

The Outlook instance currently running can be accessed on Microsoft Windows through COM.

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2 SQL Driver Attributes

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

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

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

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

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

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

The Outlook driver can be configured using the following attributes:

Code	Description	Origin	Default Value	Set from Connection String	Set from Set SQL-Statement	Set from Drivers File	Set from Log On
ignore-com-exception	Whether to ignore COM exceptions by default.	{res:itgen_outlook}	False	✓	✓	✓	
include-full-body	Include full body of items, instead of 255 characters.	{res:itgen_outlook}	False	✓	✓	✓	

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3 Catalog: Outlook
3.1 Schemas
3.1.1 Schema: Calendars
3.1.1.1 Tables
APPOINTMENTS: Outlook Appointments

Catalog: Outlook

Schema: Calendars

Primary Keys: EntryID

Label: Appointments

Documentation:

Outlook appointments.

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

Parameters of Table Function

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

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

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

Name	Data Type	Required	Default Value	Documentation
folderEntryId		☐		Unique ID of the folder as a reference to the table 'FOLDERS'.
storeEntryId		☐		Unique ID of a store as a reference to the table 'FOLDERS' when queried with include external stores.

Columns of Table Function

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

Name	Data Type	Label	Required	Documentation
AllDayEvent	boolean		☐	
BillingInformation	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
Body	varchar2			
BusyStatus	numeric		☐	
Categories	varchar2	Categories		
ConversationIndex	varchar2		☐	
ConversationTopic	varchar2		☐	
CreationTime	datetime		☐	
Duration	numeric		☐	
End	datetime		☐	
EntryID	varchar2(1024)			
FolderID	varchar2(1024)			
Importance	numeric		☐	
IsOnlineMeeting	boolean		☐	
IsRecurring	boolean		☐	
LastModificationTime	datetime		☐	
Location	varchar2		☐	
MeetingStatus	numeric		☐	
MeetingWorkspaceURL	varchar2		☐	
Mileage	varchar2		☐	
NetMeetingAutoStart	boolean		☐	
NetMeetingDocPathName	varchar2		☐	
NetMeetingOrganizerAlias	varchar2		☐	
NetMeetingServer	varchar2		☐	
NetMeetingType	numeric		☐	
NetShow URL	varchar2		☐	
NoAging	boolean		☐	
OptionalAttendees	varchar2		☐	
Organizer	varchar2		☐	
ReminderMinutesBeforeStart	numeric		☐	
ReminderOverrideDefault	boolean		☐	
ReminderPlaySound	boolean		☐	
ReminderSet	boolean		☐	
ReminderSoundFile	varchar2		☐	
ReplyTime	datetime		☐	
RequiredAttendees	varchar2		☐	
Resources	varchar2		☐	
ResponseRequested	boolean		☐	
ResponseStatus	numeric		☐	
Sensitivity	numeric		☐	
Size	numeric		☐	

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Name	Data Type	Label	Required	Documentation
Start	datetime		☐	
StoreID	varchar2(1024)			
Subject	varchar2		☐	
UnRead	boolean		☐	

3.1.2 Schema: Contacts

3.1.2.1 Tables

CONTACTS: Outlook Contacts

Catalog: Outlook

Schema: Contacts

Primary Keys: EntryID

Label: Contacts

Documentation:

Outlook contacts.

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

Parameters of Table Function

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

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

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

Name	Data Type	Required	Default Value	Documentation
folderEntryId		☐		Unique ID of the folder as a reference to the table 'FOLDERS'.
storeEntryId		☐		Unique ID of a store as a reference to the table 'FOLDERS' when queried with include external stores.

Columns of Table Function

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

Name	Data Type	Label	Required	Documentation
Account	varchar2		☐	
Anniversary	datetime		☐	
AssistantName	varchar2		☐	
AssistantTelephoneNumber	varchar2		☐	
BillingInformation	varchar2			
Birthday	datetime		☐	
Body	varchar2			
Business2TelephoneNumber	varchar2		☐	
BusinessAddress	varchar2		☐	
BusinessAddressCity	varchar2		☐	
BusinessAddressCountry	varchar2		☐	
BusinessAddressPostalCode	varchar2		☐	
BusinessAddressPostOfficeBox	varchar2		☐	
BusinessAddressState	varchar2		☐	
BusinessAddressStreet	varchar2		☐	
BusinessFaxNumber	varchar2		☐	
BusinessHomePage	varchar2		☐	
BusinessTelephoneNumber	varchar2		☐	
CallbackTelephoneNumber	varchar2		☐	
CarTelephoneNumber	varchar2		☐	
Categories	varchar2	Categories		
CompanyAndFullName	varchar2		☐	
CompanyMainTelephoneNumber	varchar2		☐	
CompanyName	varchar2		☐	
ComputerNetworkName	varchar2		☐	
ConversationIndex	varchar2		☐	
ConversationTopic	varchar2		☐	
CreationTime	datetime		☐	
CustomerID	varchar2		☐	
Department	varchar2		☐	
Email1Address	varchar2		☐	
Email1AddressType	varchar2		☐	
Email1DisplayName	varchar2		☐	
Email2Address	varchar2		☐	
Email2AddressType	varchar2		☐	
Email2DisplayName	varchar2		☐	
Email3Address	varchar2		☐	
Email3AddressType	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
Email3DisplayName	varchar2		☐	
EntryID	varchar2(1024)			
FileAs	varchar2		☐	
FirstName	varchar2		☐	
FolderID	varchar2(1024)			
FTPSite	varchar2		☐	
FullName	varchar2		☐	
FullNameAndCompany	varchar2		☐	
Gender	numeric		☐	
GovernmentIDNumber	varchar2		☐	
Hobby	varchar2		☐	
Home2TelephoneNumber	varchar2		☐	
HomeAddress	varchar2		☐	
HomeAddressCity	varchar2		☐	
HomeAddressCountry	varchar2		☐	
HomeAddressPostalCode	varchar2		☐	
HomeAddressPostOfficeBox	varchar2		☐	
HomeAddressState	varchar2		☐	
HomeAddressStreet	varchar2		☐	
HomeFaxNumber	varchar2		☐	
HomeTelephoneNumber	varchar2		☐	
IMAddress	varchar2		☐	
Importance	numeric		☐	
Initials	varchar2		☐	
InternetFreeBusyAddress	varchar2		☐	
ISDNNumber	varchar2		☐	
JobTitle	varchar2		☐	
Journal	boolean		☐	
Language	varchar2		☐	
LastModificationTime	datetime		☐	
LastName	varchar2		☐	
LastNameAndFirstName	varchar2		☐	
MailingAddress	varchar2		☐	
MailingAddressCity	varchar2		☐	
MailingAddressCountry	varchar2		☐	
MailingAddressPostalCode	varchar2		☐	
MailingAddressPostOfficeBox	varchar2		☐	
MailingAddressState	varchar2		☐	
MailingAddressStreet	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
ManagerName	varchar2		☐	
MiddleName	varchar2		☐	
Mileage	varchar2		☐	
MobileTelephoneNumber	varchar2		☐	
NickName	varchar2		☐	
NoAging	boolean		☐	
OfficeLocation	varchar2		☐	
OrganizationalIDNumber	varchar2		☐	
OtherAddress	varchar2		☐	
OtherAddressCity	varchar2		☐	
OtherAddressCountry	varchar2		☐	
OtherAddressPostalCode	varchar2		☐	
OtherAddressPostOfficeBox	varchar2		☐	
OtherAddressState	varchar2		☐	
OtherAddressStreet	varchar2		☐	
OtherFaxNumber	varchar2		☐	
OtherTelephoneNumber	varchar2		☐	
PagerNumber	varchar2		☐	
PersonalHomePage	varchar2		☐	
PrimaryTelephoneNumber	varchar2		☐	
Profession	varchar2		☐	
RadioTelephoneNumber	varchar2		☐	
ReferredBy	varchar2		☐	
ReminderOverrideDefault	boolean		☐	
ReminderPlaySound	boolean		☐	
ReminderSet	boolean		☐	
ReminderSoundFile	varchar2		☐	
ReminderTime	datetime		☐	
SelectedMailingAddress	numeric		☐	
Sensitivity	numeric		☐	
Size	numeric		☐	
Spouse	varchar2		☐	
StoreID	varchar2(1024)			
Subject	varchar2		☐	
Suffix	varchar2		☐	
TaskCompletedDate	datetime		☐	
TaskDueDate	datetime		☐	
TaskStartDate	datetime		☐	
TelexNumber	varchar2		☐	
Title	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
ToDoTaskOrdinal	datetime		☐	
TTYTDDTelephoneNumber	varchar2		☐	
UnRead	boolean		☐	
User1	varchar2		☐	
User2	varchar2		☐	
User3	varchar2		☐	
User4	varchar2		☐	
UserCertificate	varchar2		☐	
WebPage	varchar2		☐	
YomiCompanyName	varchar2		☐	
YomiFirstName	varchar2		☐	
YomiLastName	varchar2		☐	

3.1.3 Schema: General

3.1.3.1 Tables

FOLDERS: Outlook Folders

Catalog: Outlook

Schema: General

Primary Keys: EntryID

Label: Folders

Documentation:

Outlook folders.

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

Parameters of Table Function

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

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

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

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Name	Data Type	Required	Default Value	Documentation
ignoreComException		☐	False	Whether to ignore COM exception during retrieval of data.
includeDefaultFolders		☐	True	Whether to include default folders of the current user.
includeExternalStores		☐	False	Whether to include external stores available to the session besides the current user.
includeSharedFolders		☐	False	Whether to include shared folders available to the session besides the current user.

Columns of Table Function

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

Name	Data Type	Label	Required	Documentation
AddressBookName	varchar2(240)		☐	
Class	varchar2		☑	
DefaultMessageClass	varchar2		☑	
Description	varchar2		☐	
DisplayName	varchar2(240)		☐	
EntryID	varchar2(1024)		☑	
FolderPath	varchar2(240)		☑	
GroupName	varchar2(240)		☐	
GroupPosition	int32		☐	
IsSharepointFolder	boolean		☑	
Label	varchar2(240)		☑	
Name	varchar2		☑	
Position	int32		☐	
SourceName	varchar2		☑	
SourceType	varchar2(30)		☑	
StoreID	varchar2(1024)		☑	
UnReadItemCount	number		☑	
WebView URL	varchar2(240)		☐	

SESSIONS: Outlook Sessions

Catalog: Outlook

Schema: General

Label: Sessions

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Documentation:

Outlook sessions.

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

Columns of Table Function

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

Name	Data Type	Label	Required	Documentation
className	varchar2(240)		☑	
sessionAutoDiscoverConnectionMode	varchar2(240)		☐	
sessionAutoDiscoverXml	varchar2		☐	
sessionCurrentProfileName	varchar2(240)		☑	
sessionCurrentUserAddress	varchar2(240)		☐	
sessionCurrentUserName	varchar2(240)		☐	
sessionDefaultStoreId	varchar2(1024)		☐	
sessionExchangeConnectionMode	varchar2(240)		☐	
sessionExchangeMailboxServerName	varchar2(240)		☐	
sessionExchangeMailboxServerVersion	varchar2(240)		☐	
sessionOffline	boolean		☑	
sessionType	varchar2(240)		☐	

STORES: Outlook Stores

Catalog: Outlook

Schema: General

Primary Keys: StoreID

Label: Stores

Documentation:

Outlook stores.

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

Columns of Table Function

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

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Name	Data Type	Label	Required	Documentation
ClassName	varchar2(240)		☑	
DefaultMapiFolderCalendarEntryId	varchar2(1024)		☐	
DefaultMapiFolderCalendarFullPath	varchar2(240)		☐	
DisplayName	varchar2(240)		☑	
FilePath	varchar2(240)		☐	
IsCachedExchange	boolean		☑	
IsConversationEnabled	boolean		☑	
IsDataFileStore	boolean		☑	
IsDefaultStore	boolean		☑	
IsInstantSearchEnabled	boolean		☑	
IsOpen	boolean		☑	
RootMapiFolderEntryId	varchar2(1024)		☐	
RootMapiFolderFullFolderPath	varchar2(240)		☐	
StoreID	varchar2(1024)		☑	
TypeCode	varchar2(240)		☑	

3.1.4 Schema: Mails

3.1.4.1 Tables

MAILS: Outlook Mails

Catalog: Outlook

Schema: Mails

Primary Keys: EntryID

Label: Mails

Documentation:

Outlook mails.

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

Parameters of Table Function

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

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

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

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

Name	Data Type	Required	Default Value	Documentation
folderEntryId		☐		Unique ID of the folder as a reference to the table 'FOLDERS'.
includeFullBody		☐		Whether to include the full body text.
storeEntryId		☐		Unique ID of a store as a reference to the table 'FOLDERS' w hen queried w ith include external stores.

Columns of Table Function

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

Name	Data Type	Label	Required	Documentation
AlternateRecipientAllow ed	boolean		☐	
AutoForw arded	boolean		☐	
BCC	varchar2		☐	
BillingInformation	varchar2		☐	
Body	varchar2			
Categories	varchar2	Categories		
CC	varchar2		☐	
ConversationIndex	varchar2		☐	
ConversationTopic	varchar2		☐	
CreationTime	datetime		☐	
DeferredDeliveryTime	datetime		☐	
DeleteAfterSubmit	boolean		☐	
EntryID	varchar2(1024)			
ExpiryTime	datetime		☐	
FlagDueBy	datetime		☐	
FlagRequest	varchar2		☐	
FlagStatus	numeric		☐	
FolderID	varchar2(1024)			
HTMLBody	varchar2		☐	
Importance	numeric		☐	
LastModificationTime	datetime		☐	
MarkForDow nload	numeric		☐	
Mileage	varchar2		☐	

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Name	Data Type	Label	Required	Documentation
NoAging	boolean		☐	
OriginatorDeliveryReportRequested	boolean		☐	
ReadReceiptRequested	boolean		☐	
ReceivedByName	varchar2		☐	
ReceivedOnBehalfOfName	varchar2		☐	
ReceivedTime	datetime		☐	
RecipientReassignmentProhibited	boolean		☐	
ReminderOverrideDefault	boolean		☐	
ReminderPlaySound	boolean		☐	
ReminderSet	boolean		☐	
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RemoteStatus	varchar2		☐	
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SenderEmailAddress	varchar2		☐	
SenderEmailType	varchar2		☐	
SenderName	varchar2		☐	
Sensitivity	numeric		☐	
SentOn	datetime		☐	
SentOnBehalfOfName	varchar2		☐	
Size	numeric		☐	
StoreID	varchar2(1024)			
Subject	varchar2		☐	
TaskCompletedDate	datetime		☐	
TaskDueDate	datetime		☐	
TaskStartDate	datetime		☐	
To	varchar2		☐	
ToDoTaskOrdinal	datetime		☐	
UnRead	boolean		☐	
VotingResponse	varchar2		☐	

4 Package: dcr_metadata

4.1 Procedures

4.1.1 dcr_metadata.get_partitions: Outlook Data container metadata package

Get all partitions.

Documentation:

List all partitions.

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