

GUIDE

erwin Data Modeler

MS Fabric Playbook 15.0

Quest

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Connecting erwin Data Modeler to Microsoft Fabric Warehouse

You can connect erwin Data Modeler (erwin DM) to Microsoft Fabric Warehouse for reverse engineering. This guide walks you through the prerequisites and steps to connect to Microsoft Fabric (MS Fabric) warehouse. You can download the PDF version of this guide [here](#).

The Microsoft Fabric Warehouse is certified using SQLServer: Azure and Azure Synapse: SQL Pool. This is applicable to erwin DM 15.1.

Prerequisites

- erwin DM version 15.0 or later
- Access to Microsoft Fabric workspace with a warehouse (SQL analytics endpoint) deployed and contributor-level permissions
- Microsoft Entra ID credentials with access
- SQL client support (For example, Microsoft ODBC / Native client drivers) installed on the erwin DM host machine

Workflow

To connect to your Microsoft Fabric warehouse and reverse engineer, follow this workflow:

1. [Obtain SQL connection string](#)
2. [Configure ODBC data source to connect erwin DM](#)
3. [Reverse Engineer](#)

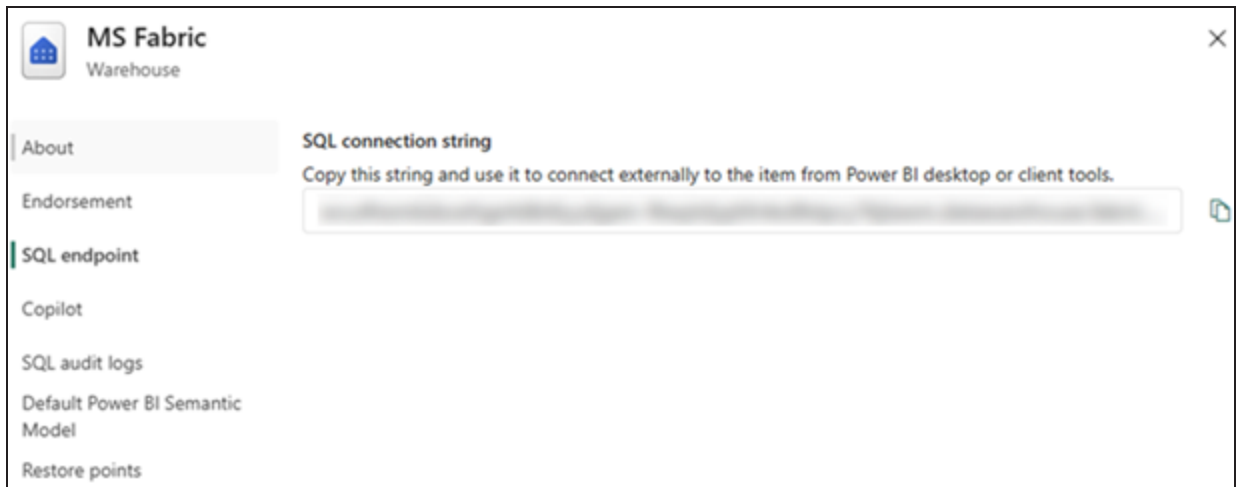
Step 1: Obtain SQL Connection String

To obtain the SQL connection string, follow these steps:

1. Log in to the Microsoft Fabric portal. (<https://app.fabric.microsoft.com/>)
2. Within your workspace, locate your warehouse.

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3. Go to the Settings menu and under SQL analytics endpoint



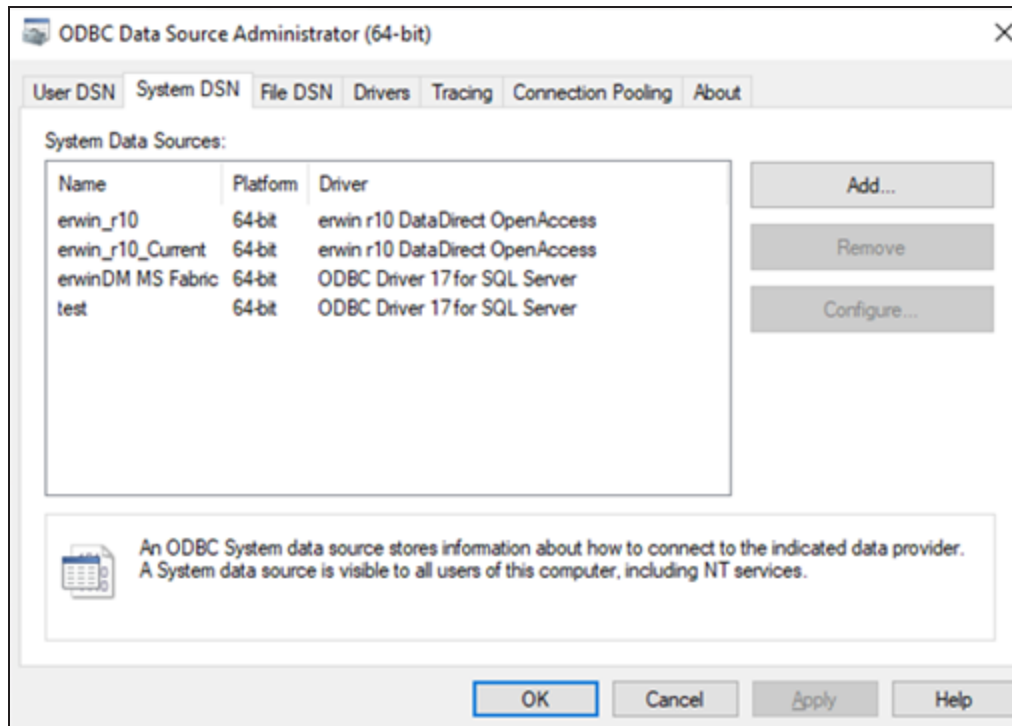
4. Copy the SQL connection string

Step 2: Configure ODBC Data Source to Connect erwin DM

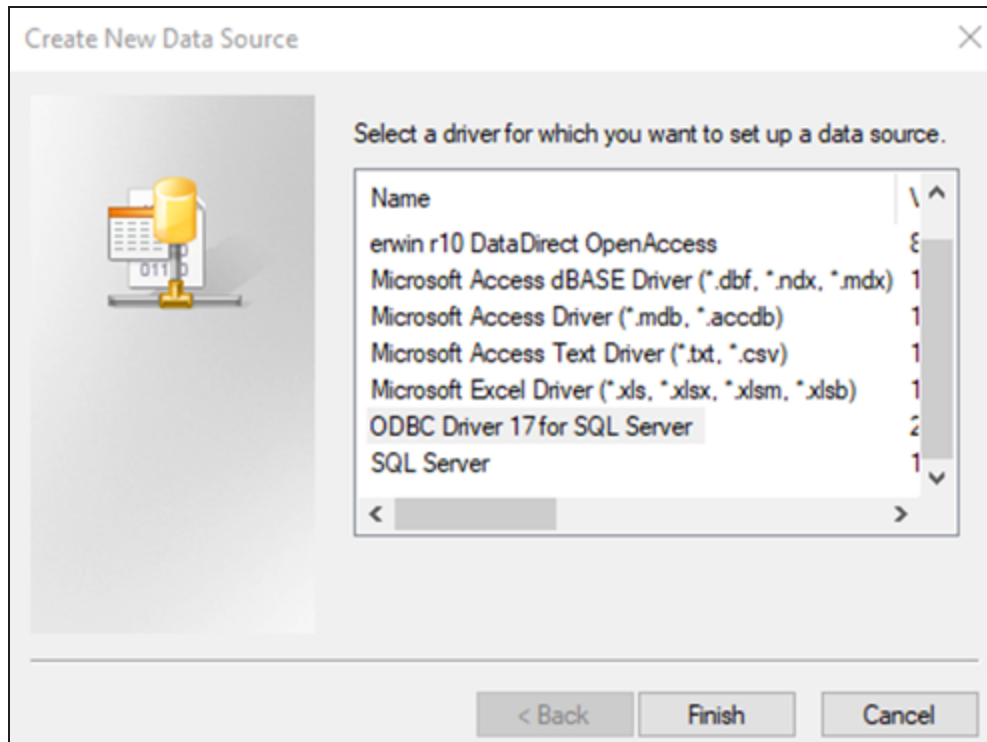
To configure an ODBC data source, follow these steps:

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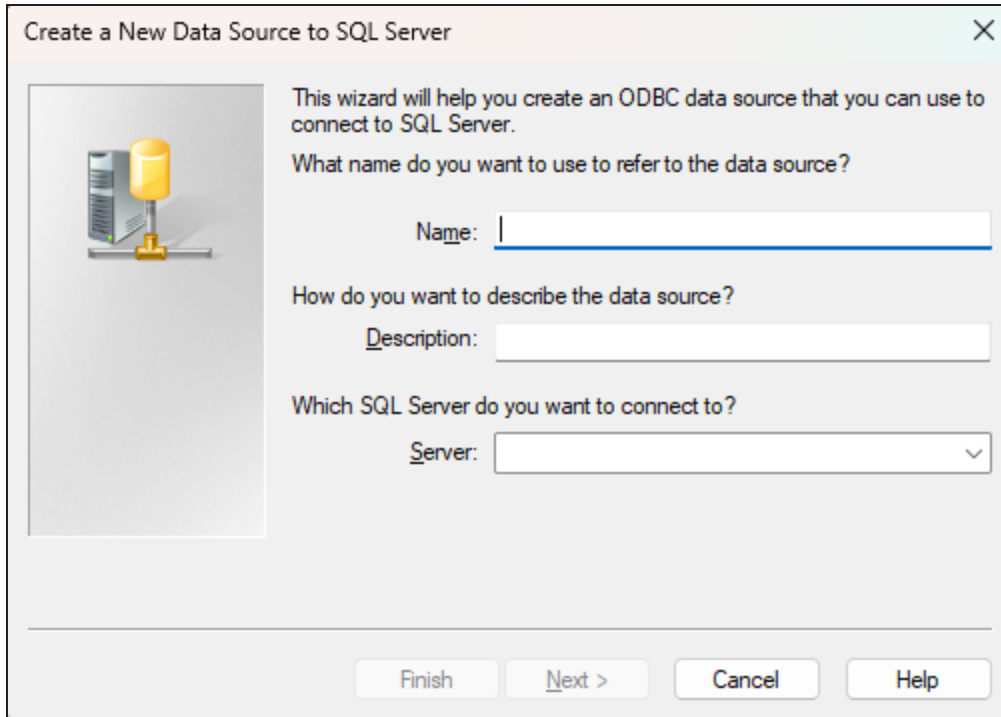
1. Open ODBC Data Source Administrator (64-bit)



2. On the System DSN tab, click **Add**.

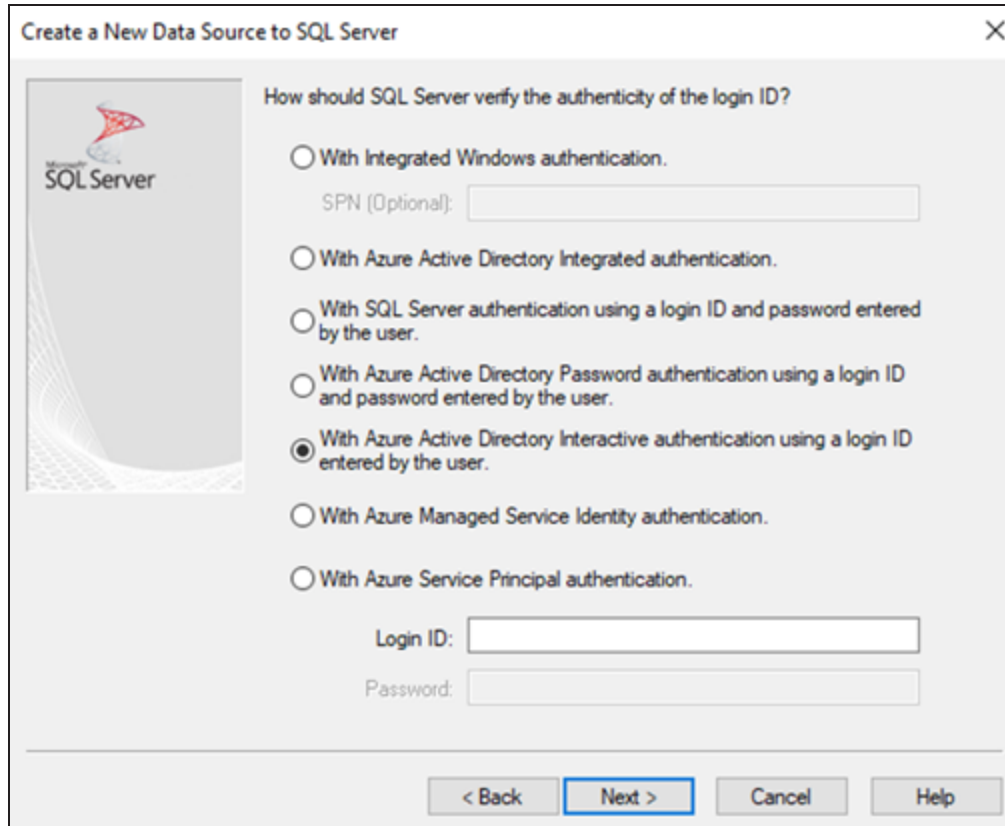


3. Select ODBC Driver 17 for SQL Server or latest.
4. Click **Finish**.



The screenshot shows a dialog box titled "Create a New Data Source to SQL Server" with a close button (X) in the top right corner. On the left side, there is an icon of a server rack with a yellow cylinder on top. The main text reads: "This wizard will help you create an ODBC data source that you can use to connect to SQL Server." Below this, it asks "What name do you want to use to refer to the data source?" with a text input field labeled "Name:". The next question is "How do you want to describe the data source?" with a text input field labeled "Description:". The final question is "Which SQL Server do you want to connect to?" with a dropdown menu labeled "Server:". At the bottom of the dialog, there are four buttons: "Finish", "Next >", "Cancel", and "Help".

5. Enter **Name**. Then, under **Server**, paste the MS Fabric SQL connection string.
6. Click **Next**.



Microsoft SQL Server

How should SQL Server verify the authenticity of the login ID?

With Integrated Windows authentication.
SPN (Optional):

With Azure Active Directory Integrated authentication.

With SQL Server authentication using a login ID and password entered by the user.

With Azure Active Directory Password authentication using a login ID and password entered by the user.

With Azure Active Directory Interactive authentication using a login ID entered by the user.

With Azure Managed Service Identity authentication.

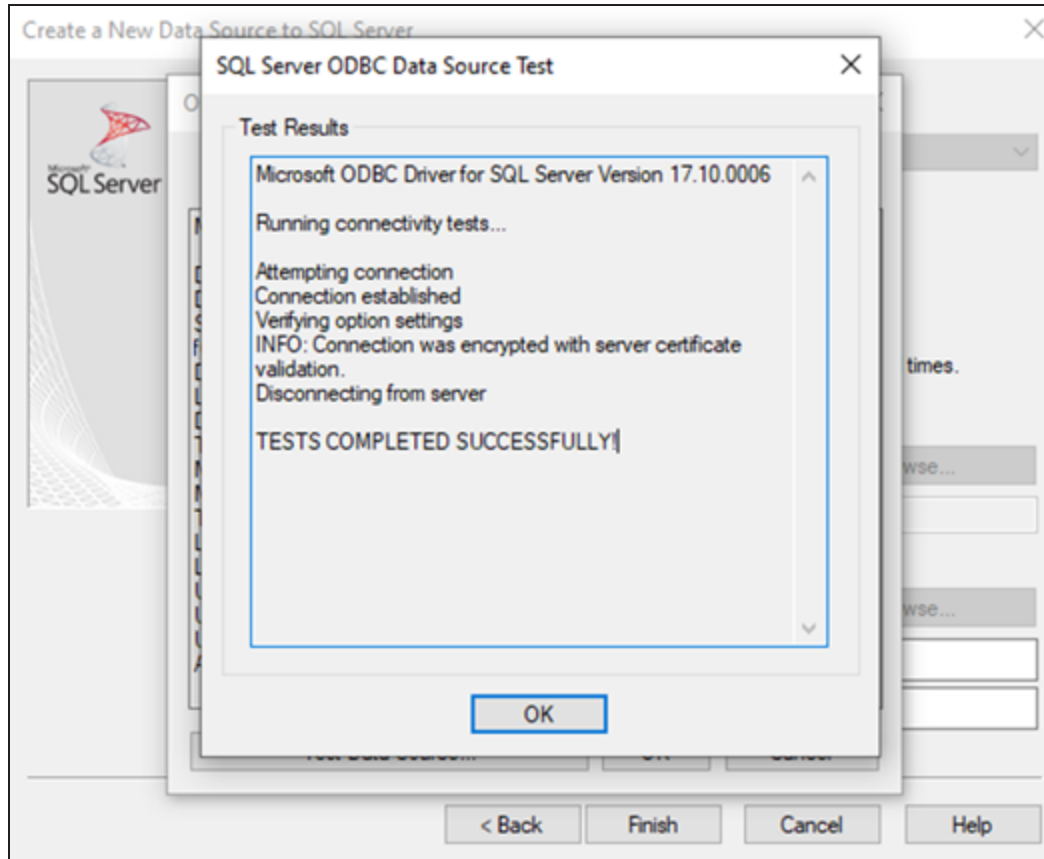
With Azure Service Principal authentication.

Login ID:

Password:

< Back Next > Cancel Help

7. Click **With Azure Active Directory Interactive authentication using a login ID entered by the user**.
8. Change the default database to your warehouse. You will be asked to sign in.
9. Enter credentials and click **Test connection**.
10. Click **Finish** and then click **Test Data Source**.
A confirmation screen appears.



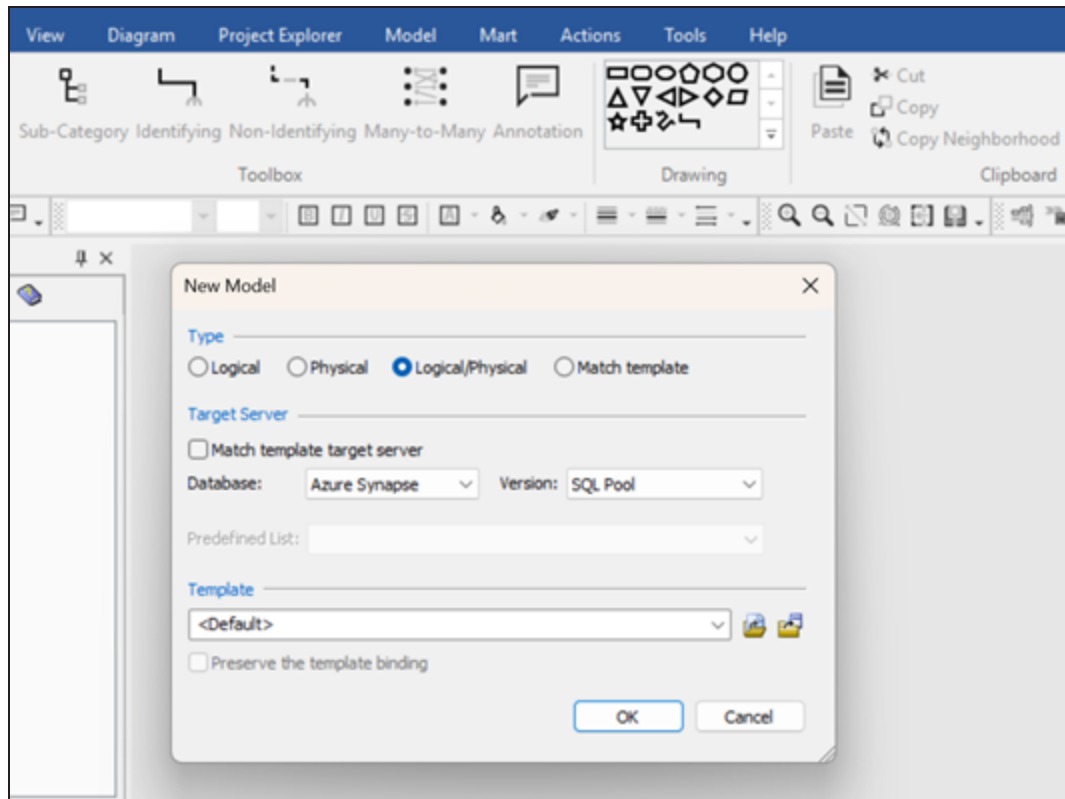
Step 3: Reverse Engineer

To reverse engineer from your MS Fabric warehouse, follow these steps:

1. In erwin DM, on the ribbon, click **Actions > Reverse Engineer**.

The database selection screen appears.

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2. In the **Database** list, select **Azure Synapse** or **SQL Server**. If you select SQL Server, select **Azure** from the Version dropdown. and for **Azure Synapse**, select **SQL Pool** from the Version dropdown.
3. Click **Next**.
4. Authenticate using your Microsoft Entra ID.
5. In the ODBC Data Source, select the created ODBC data source. In this case, erwinDM MS Fabric.

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Reverse Engineering Wizard
Configure database connection options

Overview
Connection
Schemas
Tables
Option Set
Detailed Options
Scheduler
erwin Project

Database: Azure Synapse
Authentication: Database Authentication
User Name: raunak.pandey@quest.com
Password:

Parameters	Value
Connection Method	ODBC
ODBC Data Source	erwinDM MS Fabric
Invoke ODBC Administrator	<input type="checkbox"/>

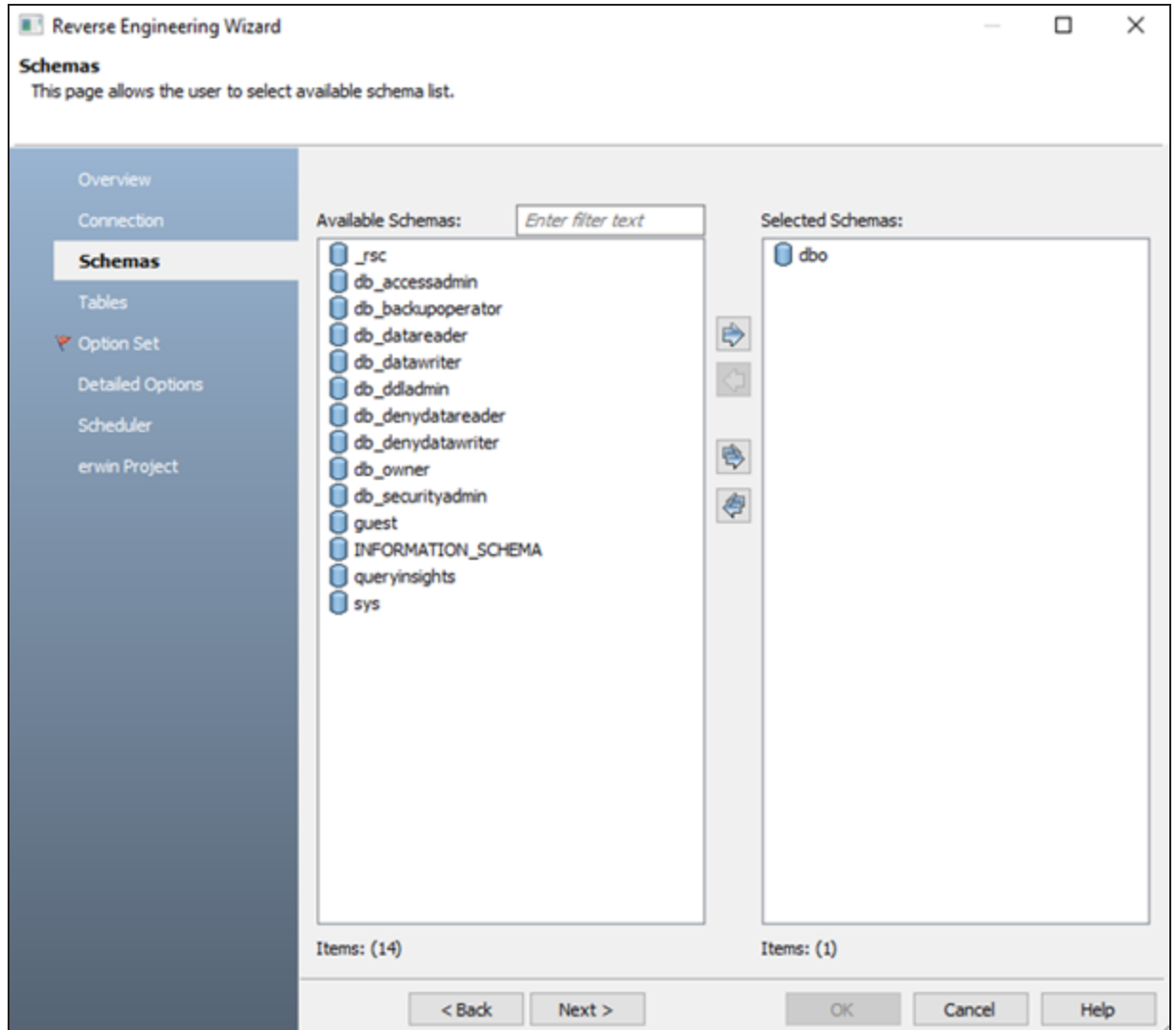
Connect Disconnect API Connection String

Recent Connections:

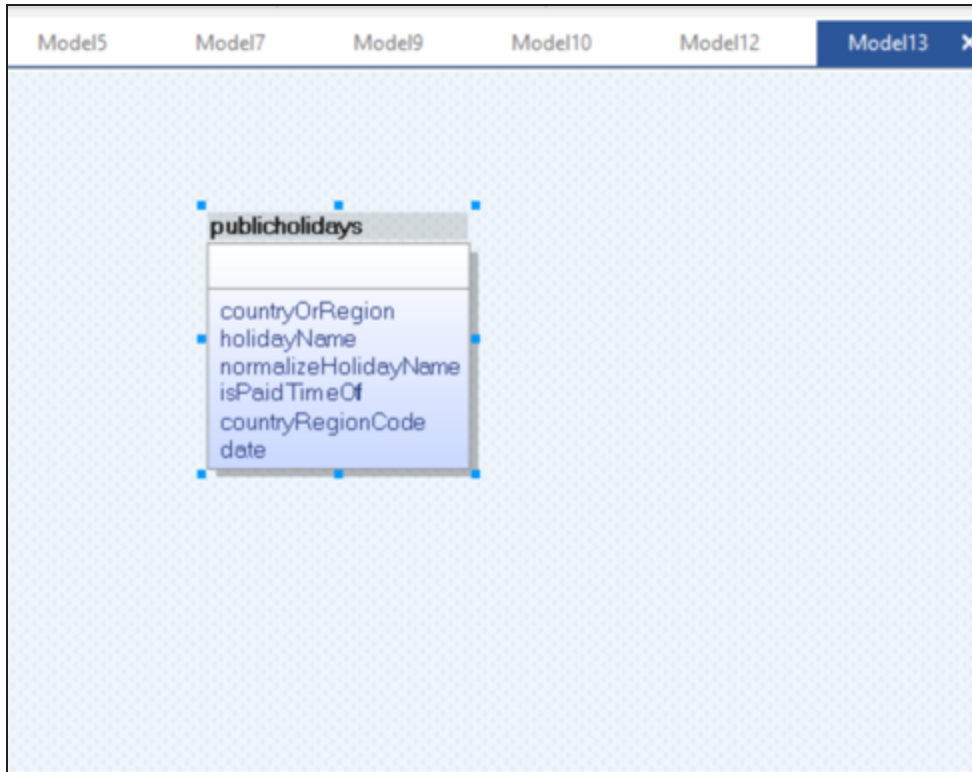
- erwinDM MS Fabric (Azure Synapse) using raunak.pandey@quest.com
- test (Azure Synapse) using raunak.pandey@quest.com

< Back Next > OK Cancel Help

6. Click **Next**.



7. Select schemas and click **Next**.
 8. Select tables and click **Next**.
 9. Define options such as indexes, keys, and enforce relationships.
 10. Click **OK**.
- The reverse engineering process runs, and a logical/physical model is created.

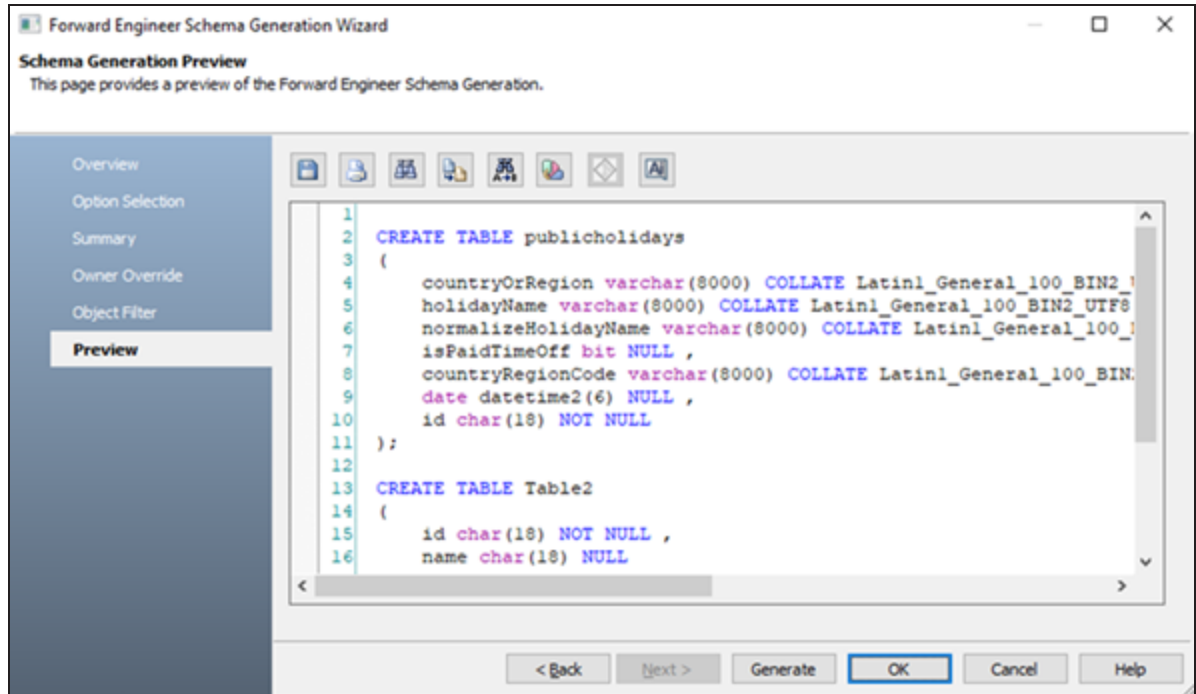


You can work on the data model in erwin DM and then forward engineer your updates to MS Fabric.


To forward engineer your model, follow these steps:

1. On the ribbon, click **Actions > Schema**
2. Click the **Preview** tab.

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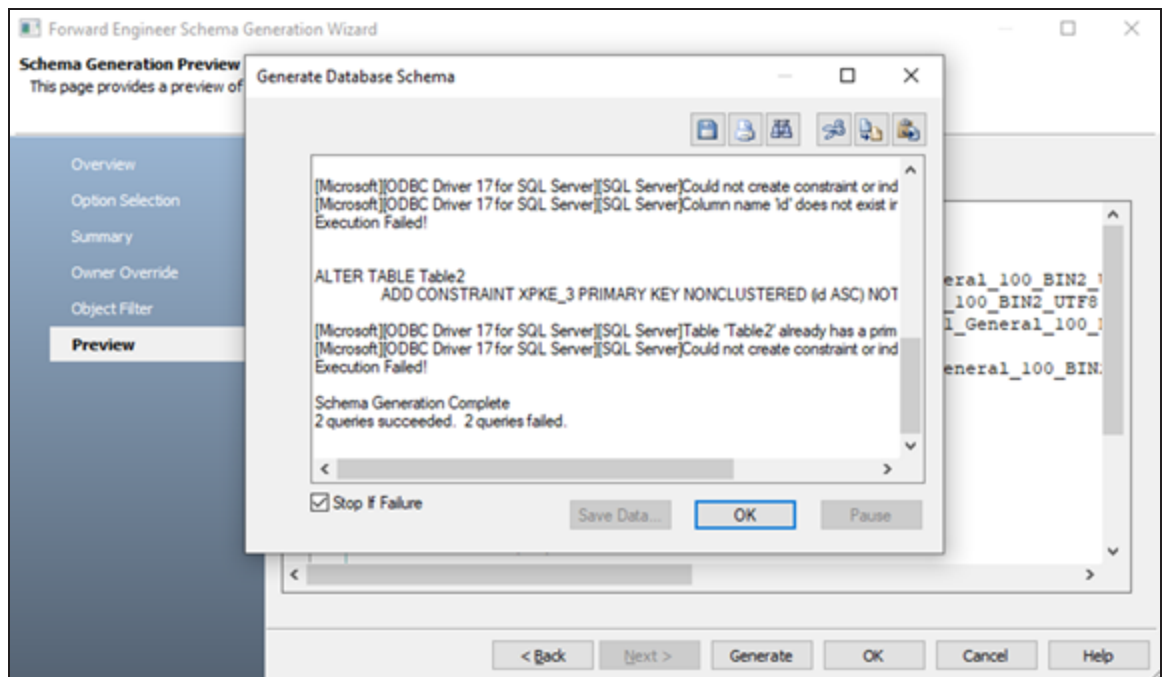


3. Use one of the following options:

- Generate DDL script locally: Click .
- Generate DDL on MS Fabric: Click **Generate**. Then, click **OK**. The schema will be for-

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ward engineered to your warehouse.



MS Fabric Warehouse Objects and Properties

The following list outlines the SQL Server Azure objects supported under MS Fabric Warehouse.

- Function
- Procedure
- Role
- Schema
- Security Policy
- Statistics
- Table
- View

For information on the properties which are applicable to SQL Server Azure under Fabric Lakehouse, refer [Warehouse Objects and Properties List](#).

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To view the list of Azure Synapse SQL Pool objects and properties supported under MS Fabric Warehouse, refer [Azure Synapse Object Support](#).