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.

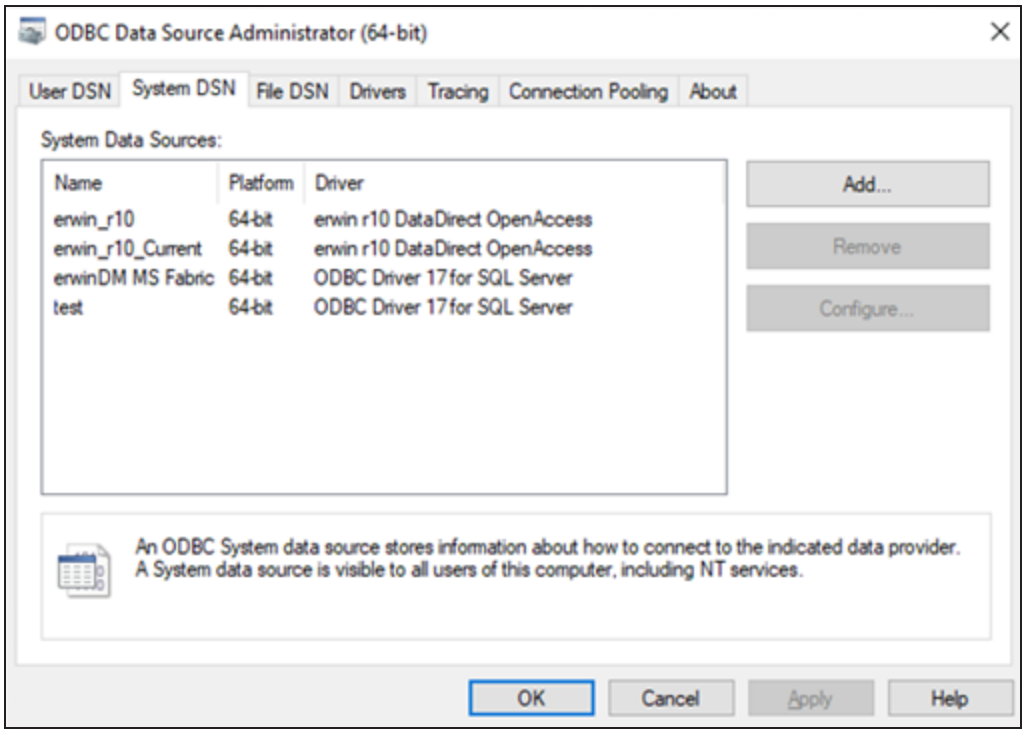
3. Go to the Settings menu and under SQL analytics endpoint

4. Copy the **SQL connection string**

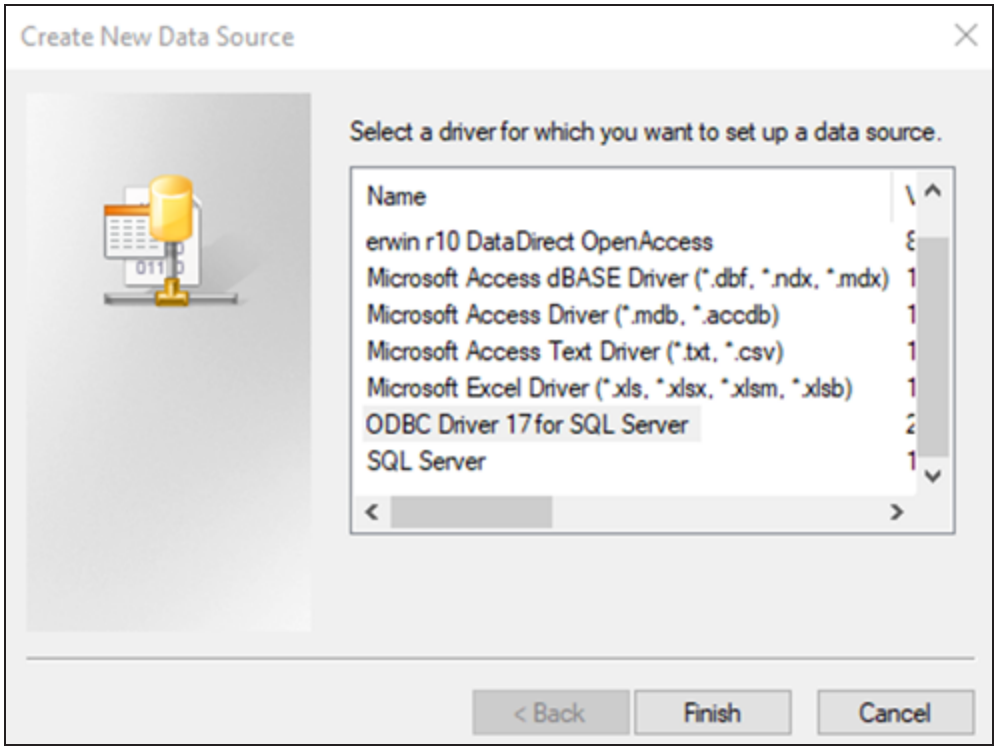
Step 2: Configure ODBC Data Source to Connect erwin DM

To configure an ODBC data source, follow these steps:

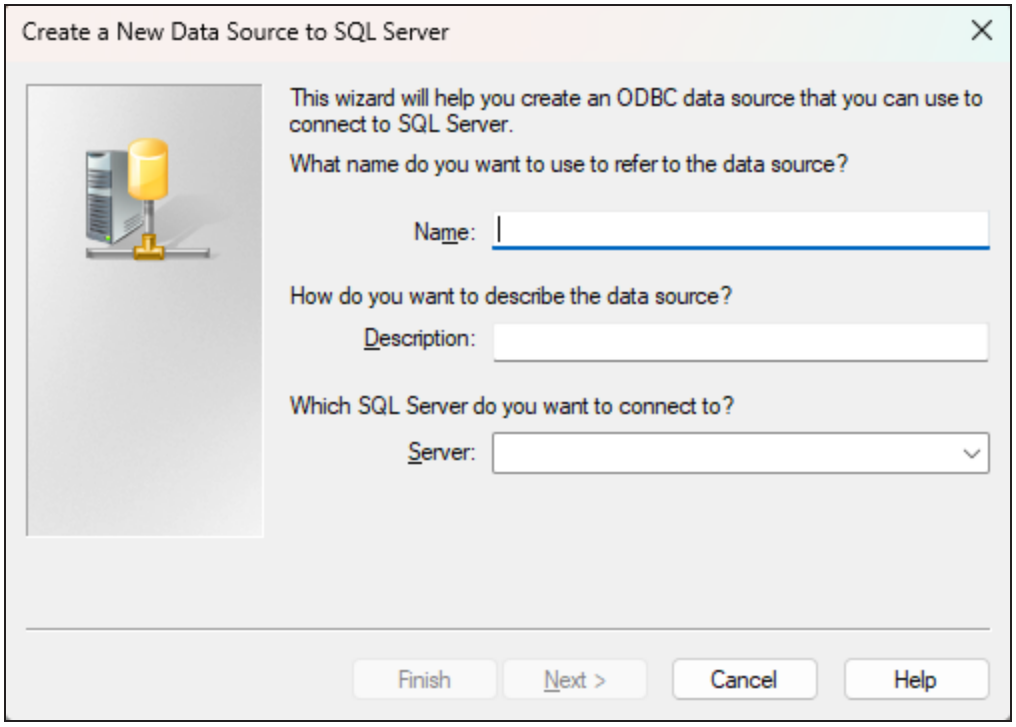
1. Open ODBC Data Source Administrator (64-bit)



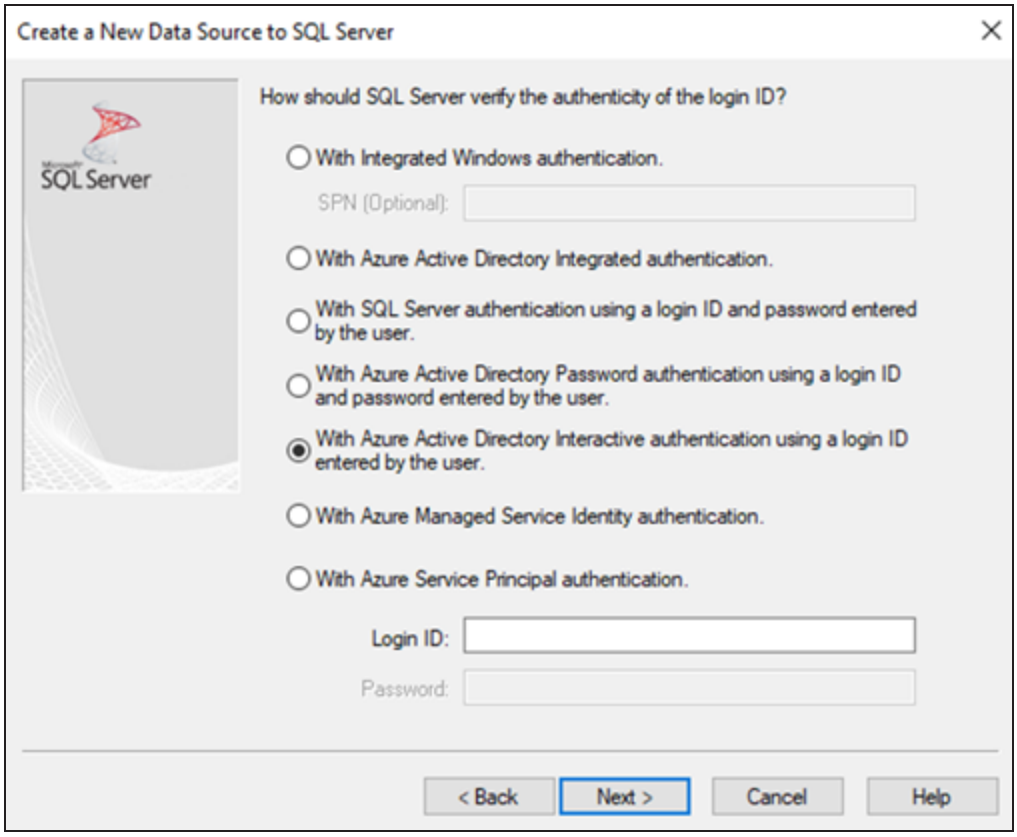
2. On the System DSN tab, click **Add**.



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

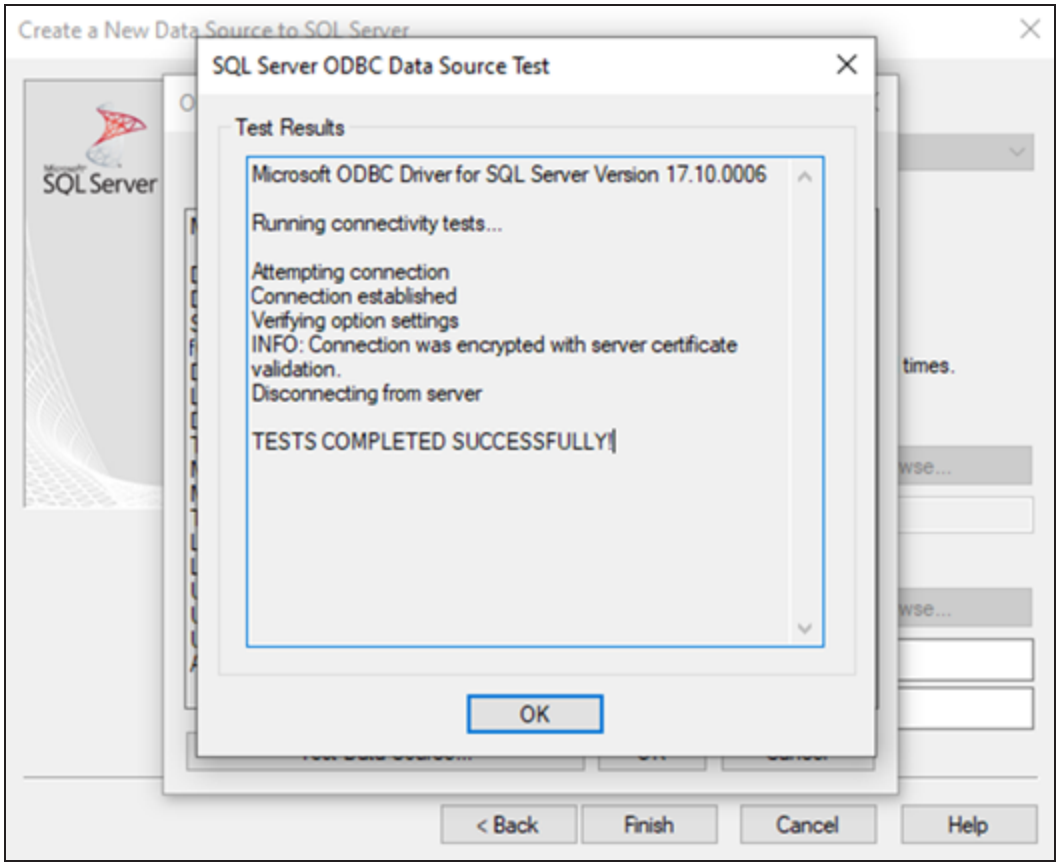


5. Enter **Name**. Then, under **Server**, paste the MS Fabric SQL connection string.
6. Click **Next**.



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.

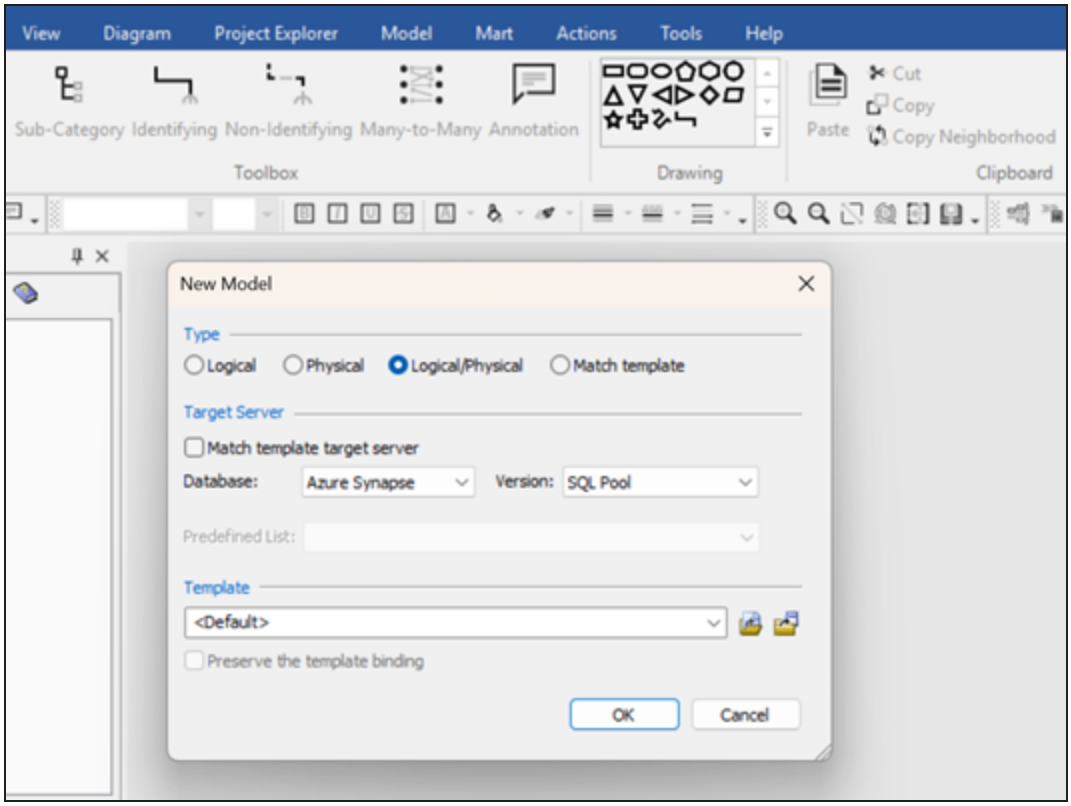


Step 3: Reverse Engineer

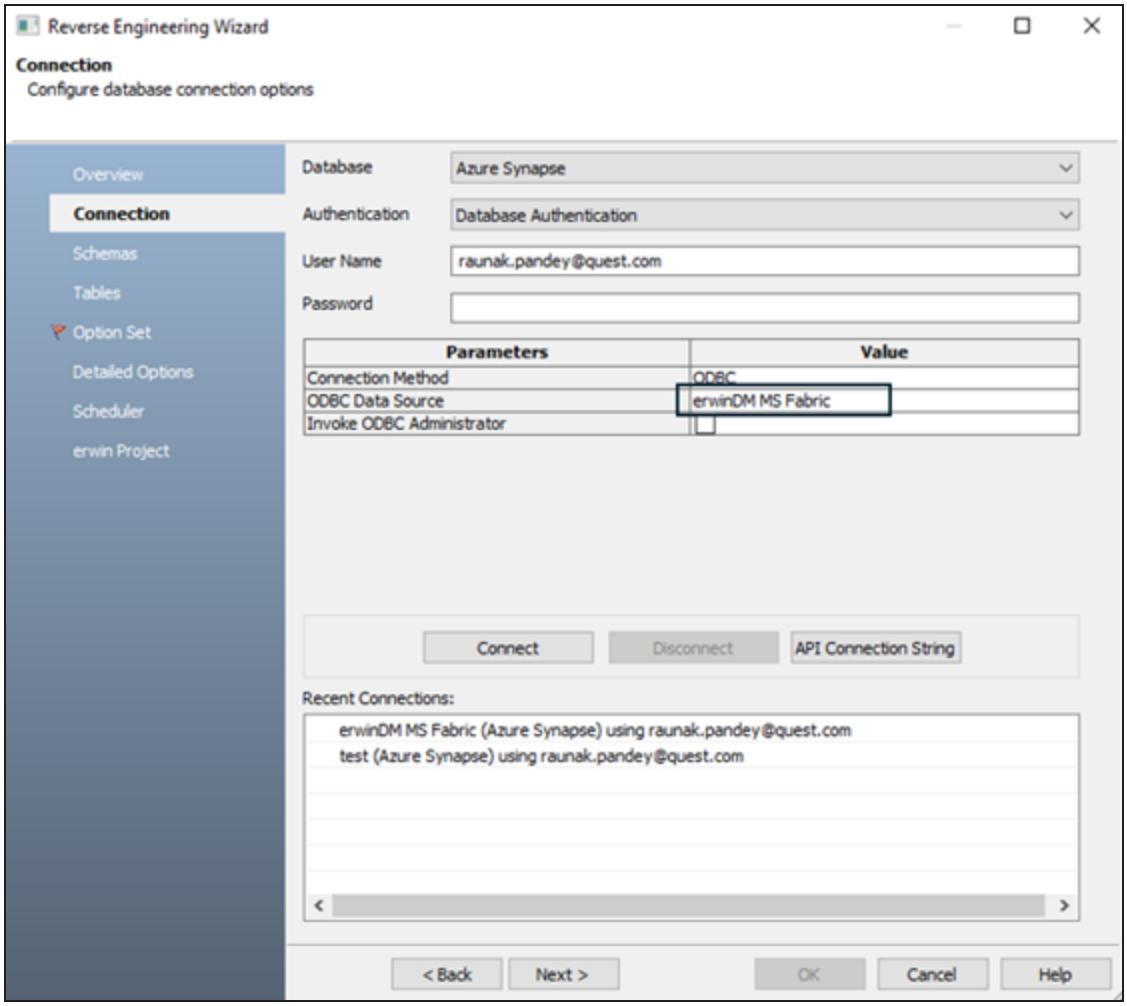
To reverse engineer from your MS Fabric warehouse, follow these steps:

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

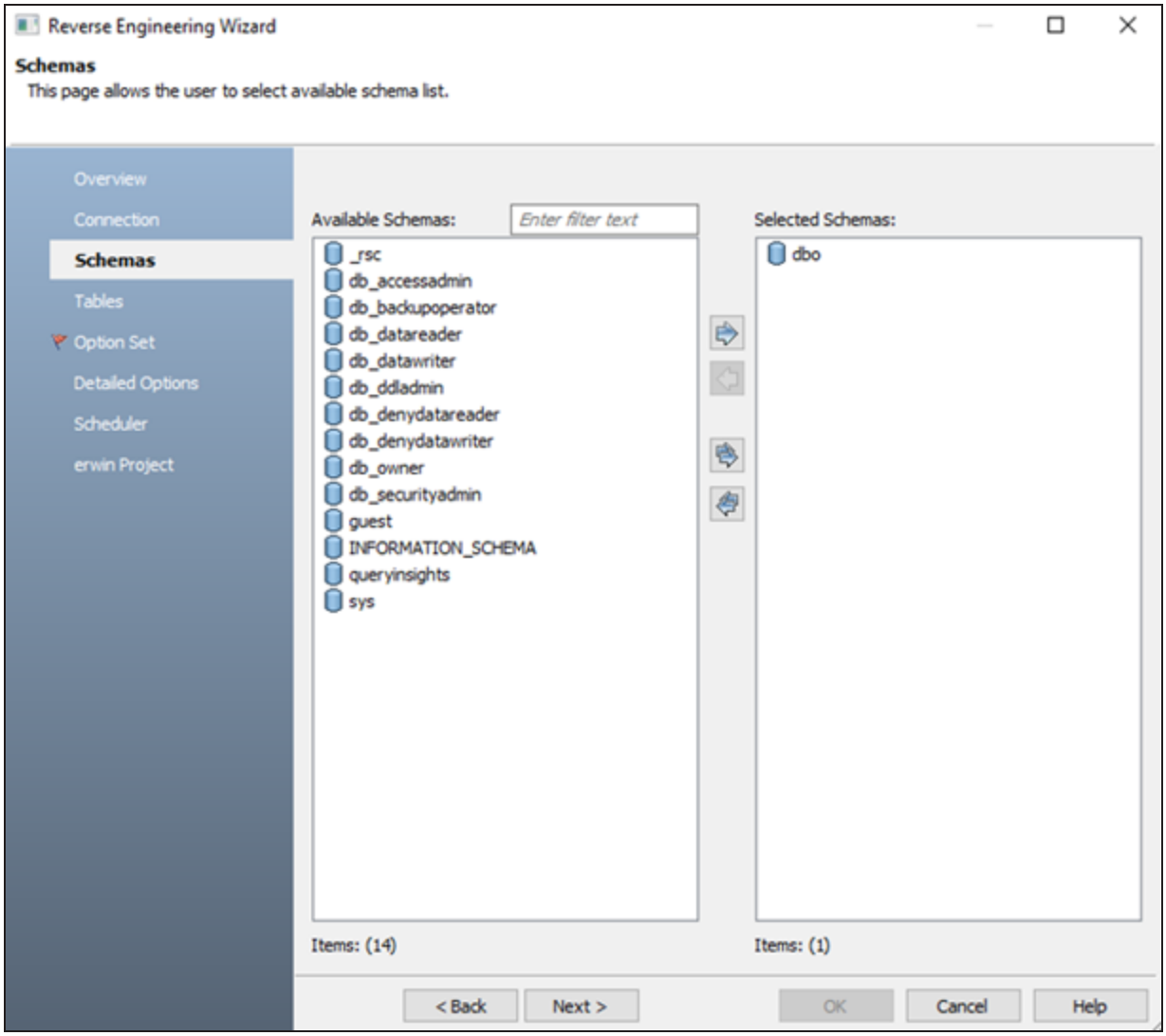
   The database selection screen appears.



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.

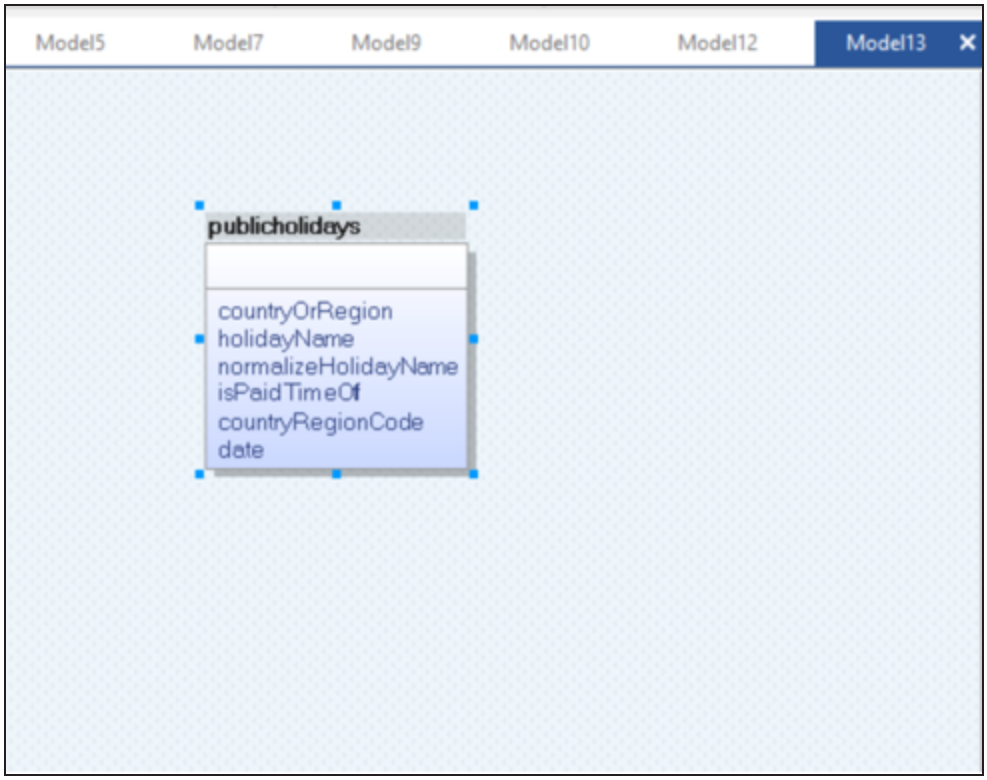

Reverse Engineering Wizard
Connection
Configure database connection options
Overview
Connection
Schemas
Tables
Option Set
Detailed Options
Scheduler
erwin Project
Database
Azure Synapse
Authentication
Database Authentication
User Name
raunak.pandey@quest.com
Password
Parameters
Value
Connection Method
ODBC
ODBC Data Source
erwinDM MS Fabric
Invoke ODBC Administrator
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**.

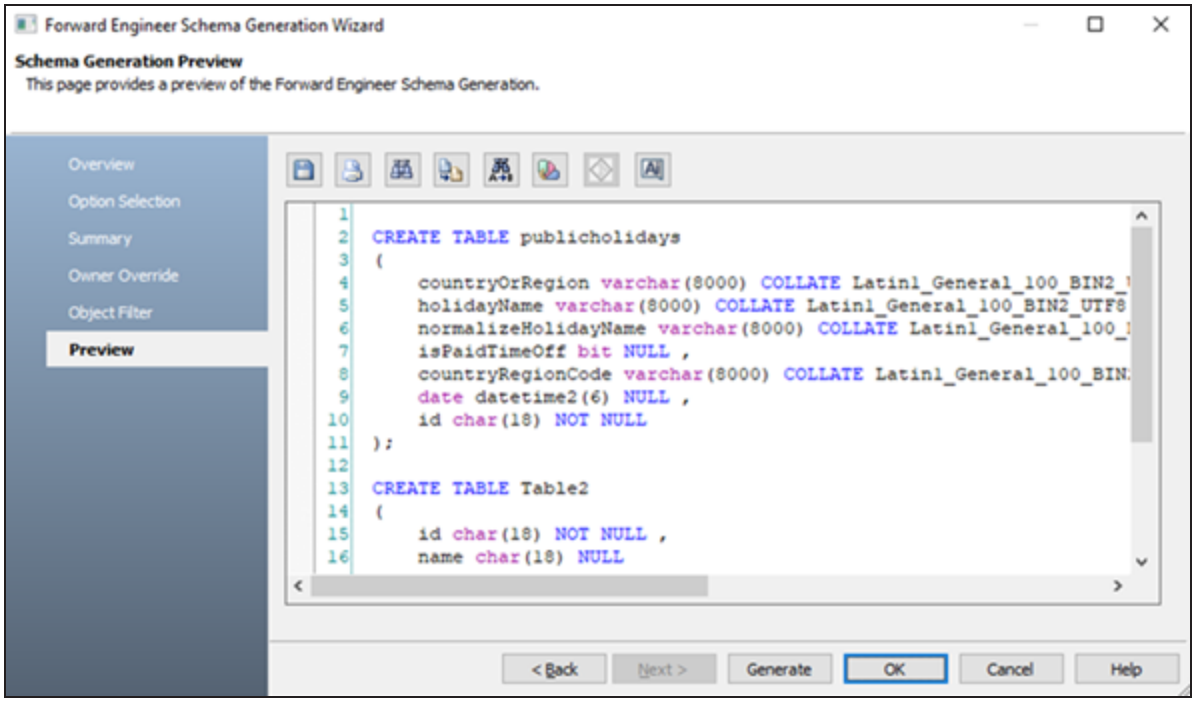
    The reverse engineering process runs, and a logical/physical model is created.



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:

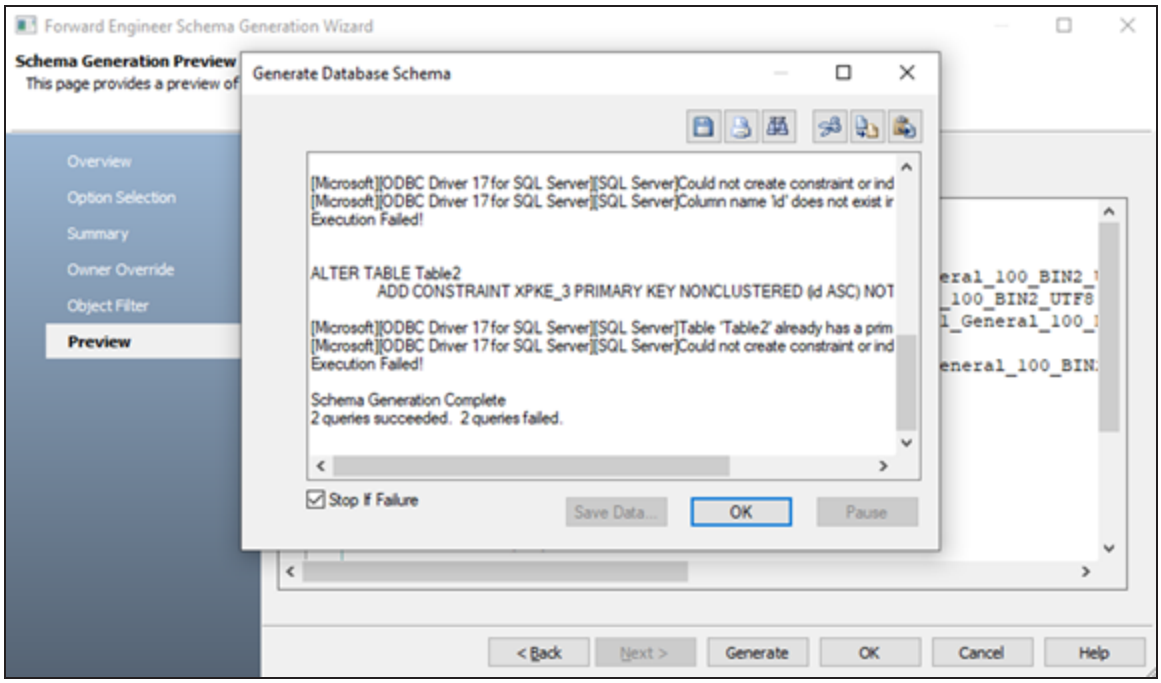
1. On the ribbon, click **Actions** > **Schema**
2. Click the **Preview** tab.



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-

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.

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