

GUIDE

erwin Data Modeler

MS Fabric Playbook 15.0



Legal Notices

This Documentation, which includes embedded help systems and electronically distributed materials (hereinafter referred to as the “Documentation”), is for your informational purposes only and is subject to change or withdrawal by Quest Software, Inc and/or its affiliates at any time. This Documentation is proprietary information of Quest Software, Inc and/or its affiliates and may not be copied, transferred, reproduced, disclosed, modified or duplicated, in whole or in part, without the prior written consent of Quest Software, Inc and/or its affiliates

If you are a licensed user of the software product(s) addressed in the Documentation, you may print or otherwise make available a reasonable number of copies of the Documentation for internal use by you and your employees in connection with that software, provided that all Quest Software, Inc and/or its affiliates copyright notices and legends are affixed to each reproduced copy.

The right to print or otherwise make available copies of the Documentation is limited to the period during which the applicable license for such software remains in full force and effect. Should the license terminate for any reason, it is your responsibility to certify in writing to Quest Software, Inc and/or its affiliates that all copies and partial copies of the Documentation have been returned to Quest Software, Inc and/or its affiliates or destroyed.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, QUEST SOFTWARE, INC. PROVIDES THIS DOCUMENTATION “AS IS” WITHOUT WARRANTY OF ANY KIND, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL QUEST SOFTWARE, INC. BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY LOSS OR DAMAGE, DIRECT OR INDIRECT, FROM THE USE OF THIS DOCUMENTATION, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST INVESTMENT, BUSINESS INTERRUPTION, GOODWILL, OR LOST DATA, EVEN IF QUEST SOFTWARE, INC. IS EXPRESSLY ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSS OR DAMAGE.

The use of any software product referenced in the Documentation is governed by the applicable license agreement and such license agreement is not modified in any way by the terms of this notice.

The manufacturer of this Documentation is Quest Software, Inc and/or its affiliates.

Provided with “Restricted Rights.” Use, duplication or disclosure by the United States Government is subject to the restrictions set forth in FAR Sections 12.212, 52.227-14, and 52.227-19(c) (1) - (2) and DFARS Section 252.227-7014(b)(3), as applicable, or their successors.

Copyright © 2025 Quest Software, Inc and/or its affiliates All rights reserved. All trademarks, trade names, service marks, and logos referenced herein belong to their respective companies.

Contact erwin

Understanding your Support

Review [support maintenance programs and offerings](#).

Registering for Support

Access the [erwin support](#) site and register for product support.

Accessing Technical Support

For your convenience, erwin provides easy access to "One Stop" support for all editions of [erwin Data Modeler](#), and includes the following:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- erwin Support policies and guidelines
- Other helpful resources appropriate for your product

For information about other erwin products, visit [erwin by Quest Products page](#).

Provide Feedback

If you have comments or questions, or feedback about erwin product documentation, you can send a message to techpubs@erwin.com.

News and Events

Visit [News and Events](#) to get up-to-date news, announcements, and events. View video demos and read up on customer success stories and articles by industry experts.

Contents

Connecting erwin Data Modeler to Microsoft Fabric Warehouse	5
Prerequisites	5
Workflow	5
Step 1: Obtain SQL Connection String	5
Step 2: Configure ODBC Data Source to Connect erwin DM	6
Step 3: Reverse Engineer	11
MS Fabric Warehouse Objects and Properties	17

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](#)

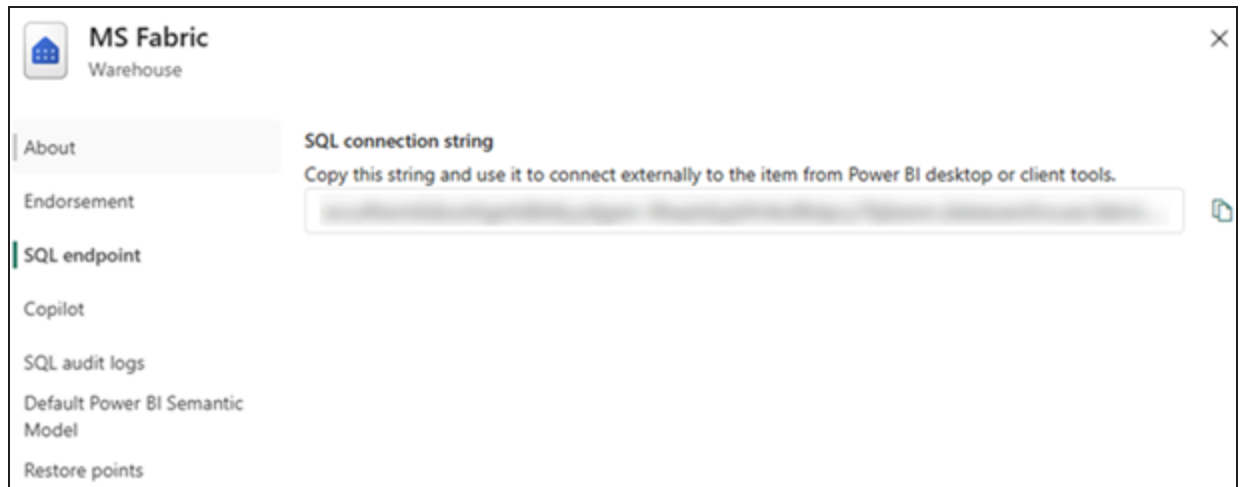
Step 1: Obtain SQL Connection String

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.

Connecting erwin Data Modeler to Microsoft Fabric Warehouse

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



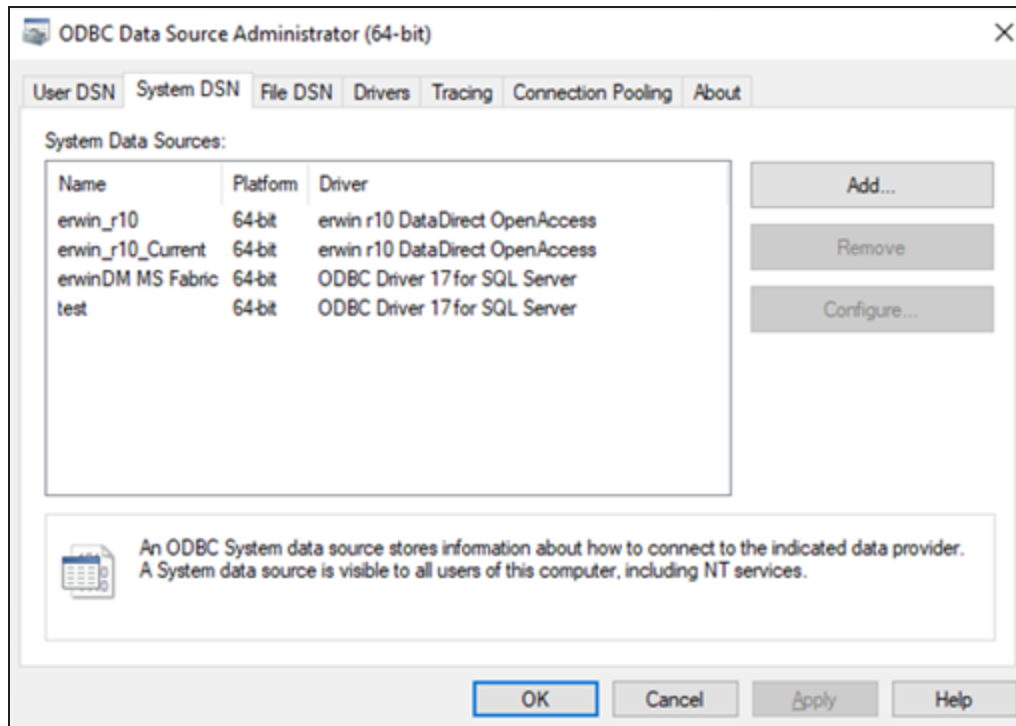
4. Copy the SQL connection string

Step 2: Configure ODBC Data Source to Connect erwin DM

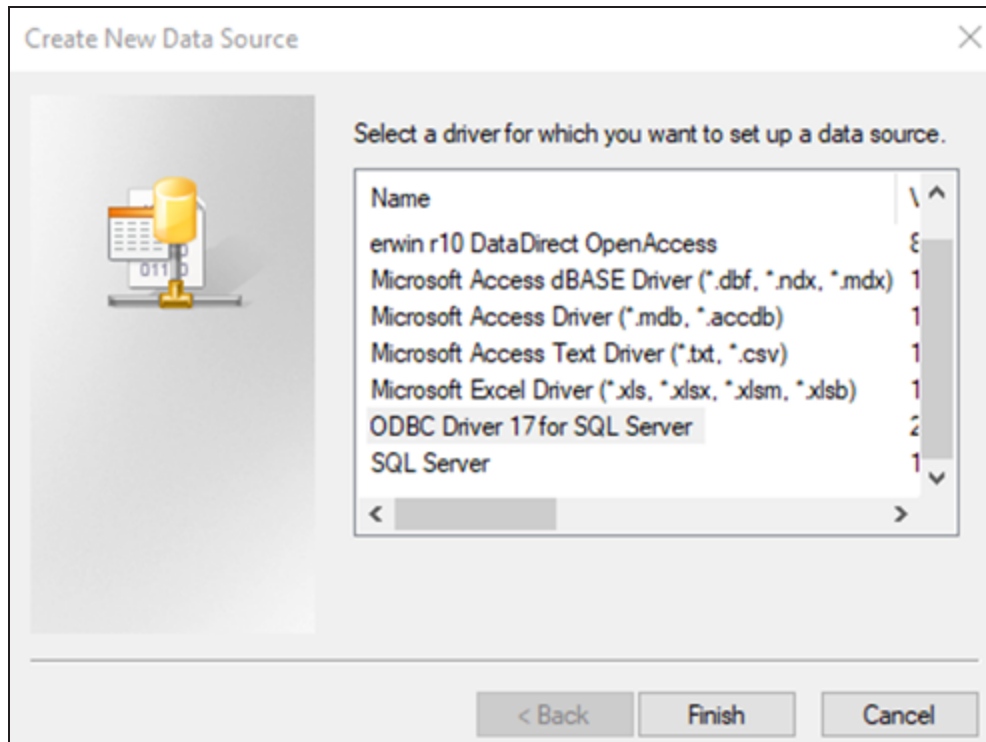
To configure an ODBC data source, follow these steps:

Connecting erwin Data Modeler to Microsoft Fabric Warehouse

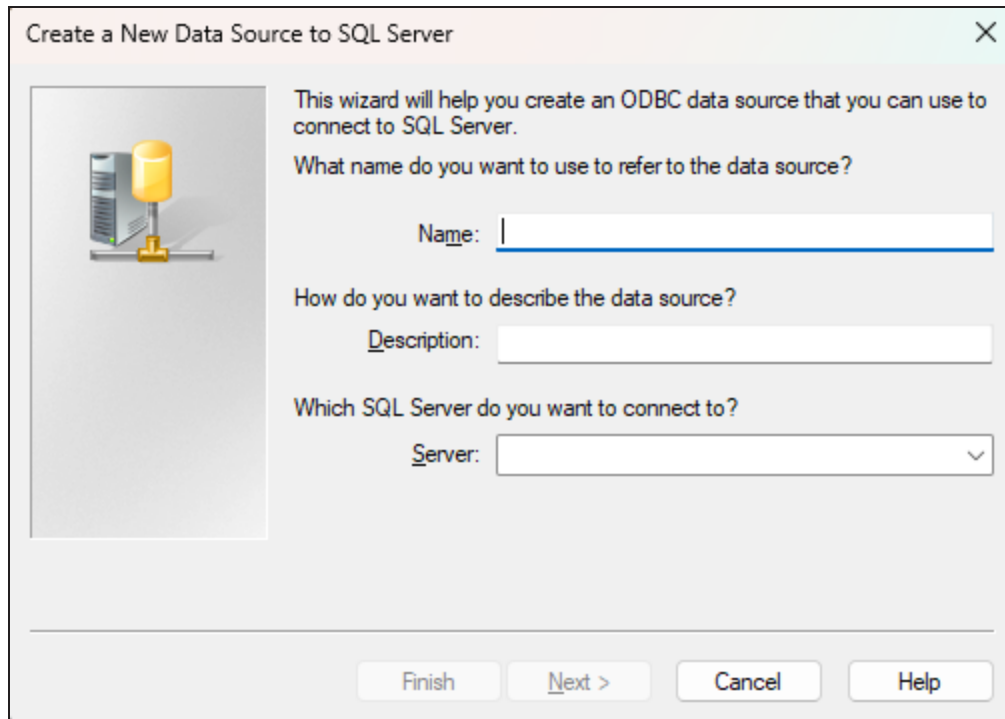
1. Open ODBC Data Source Administrator (64-bit)



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



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

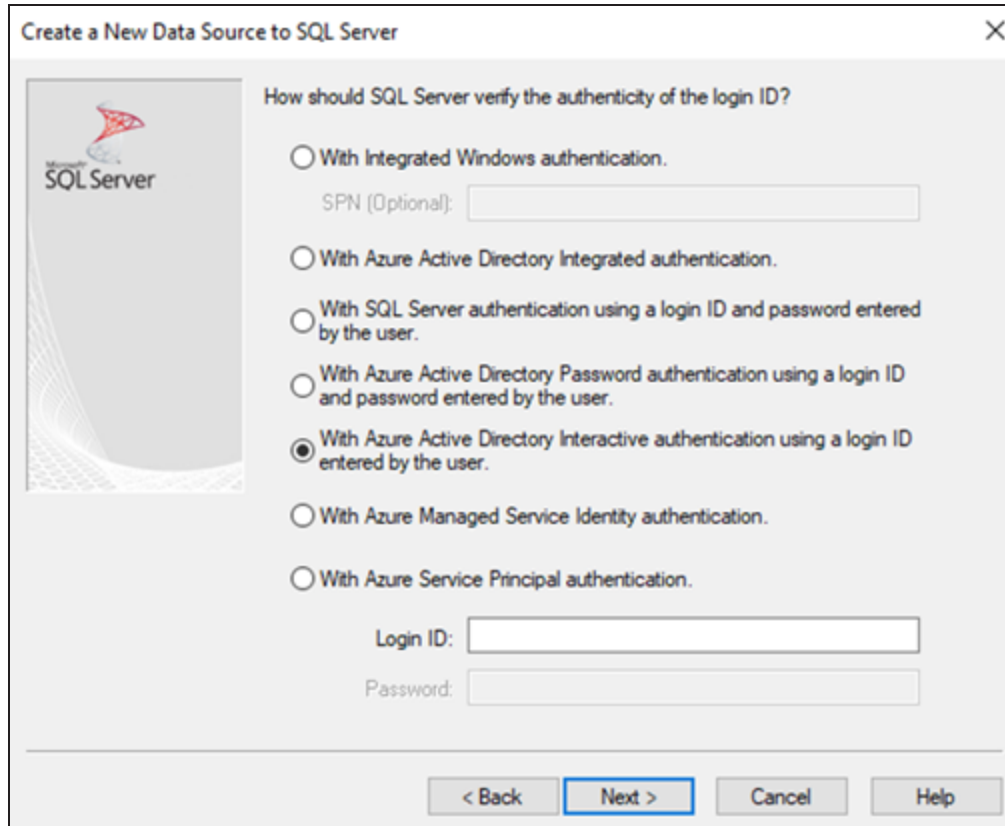


The screenshot shows a wizard window titled "Create a New Data Source to SQL Server". On the left is an icon of a server with a yellow cylinder. The main text area contains the following instructions and input fields:

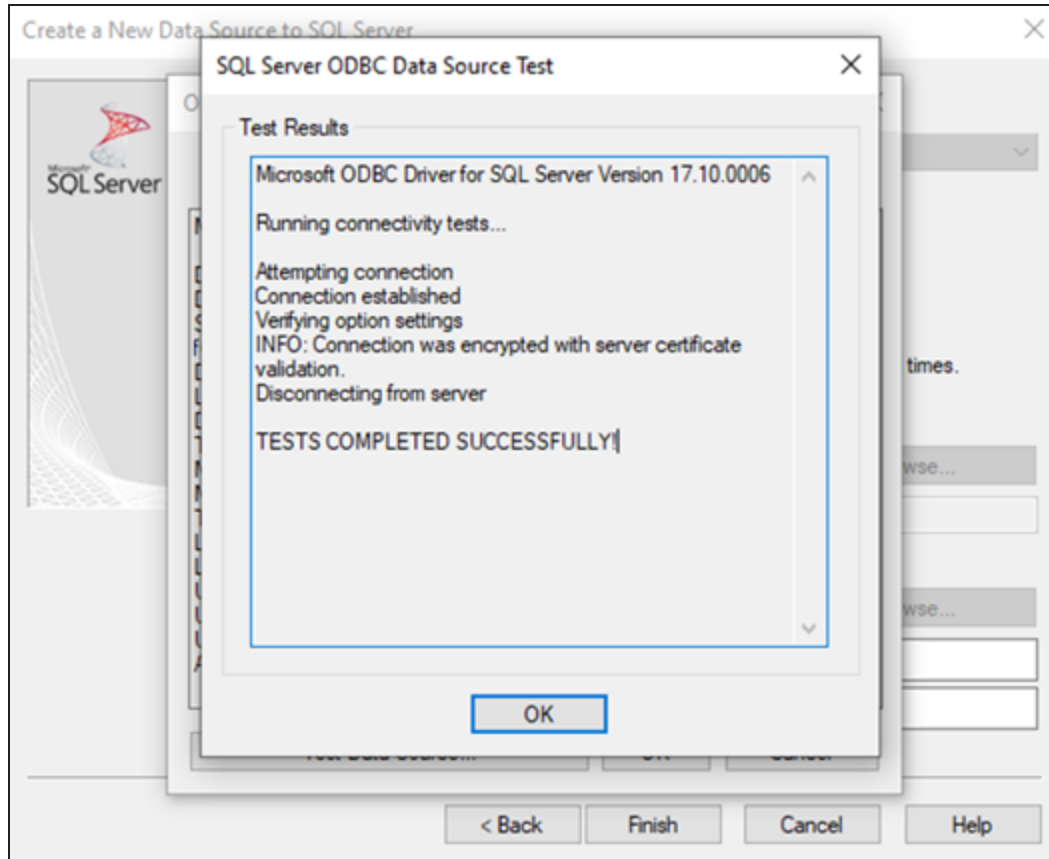
- "This wizard will help you create an ODBC data source that you can use to connect to SQL Server."
- "What name do you want to use to refer to the data source?" followed by a text field labeled "Name:".
- "How do you want to describe the data source?" followed by a text field labeled "Description:".
- "Which SQL Server do you want to connect to?" followed by a dropdown menu labeled "Server:".

At the bottom of the window are four buttons: "Finish", "Next >", "Cancel", and "Help".

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.

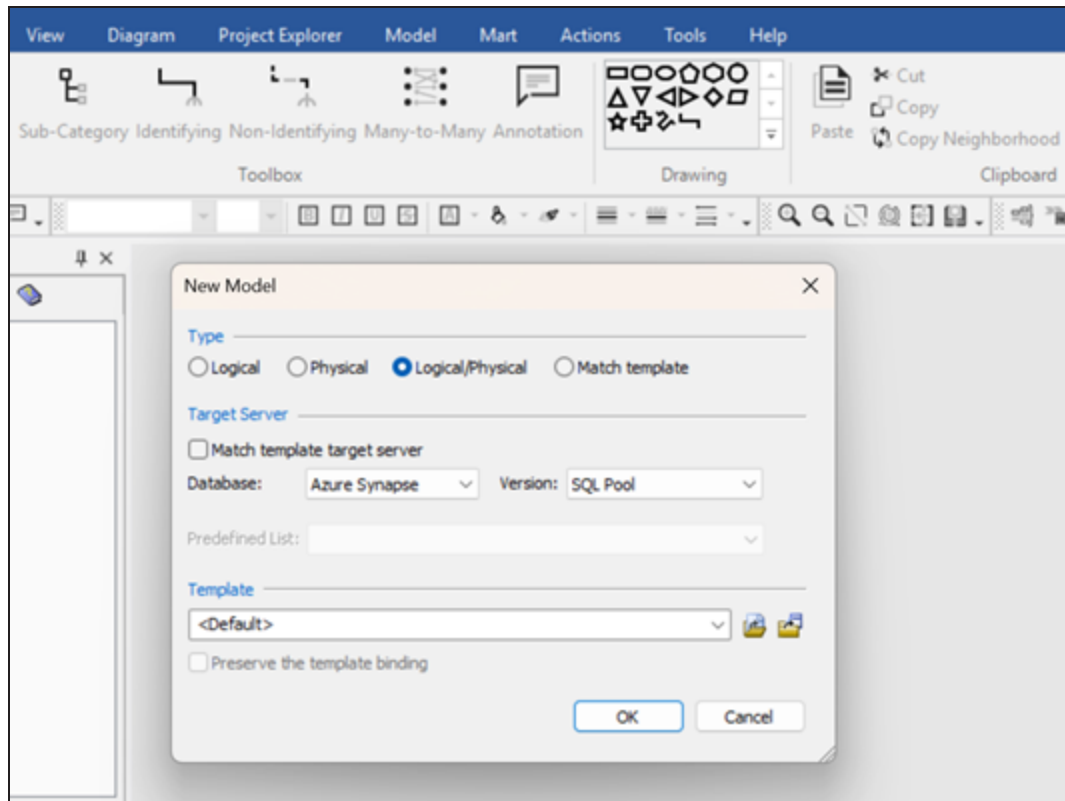


Step 3: Reverse Engineer

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.

Connecting erwin Data Modeler to Microsoft Fabric Warehouse

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	<input type="checkbox"/>

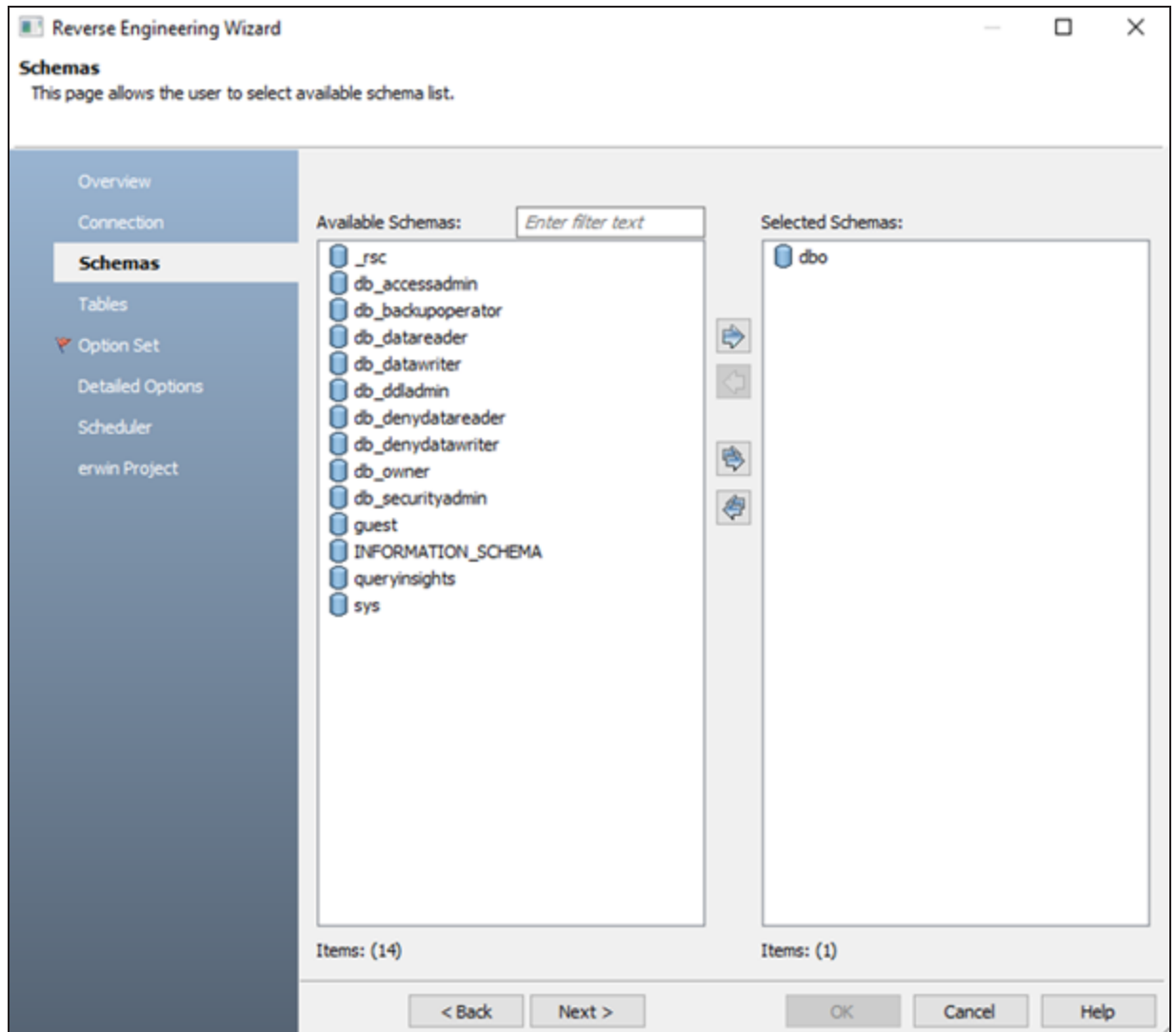
Connect Disconnect API Connection String

Recent Connections:

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

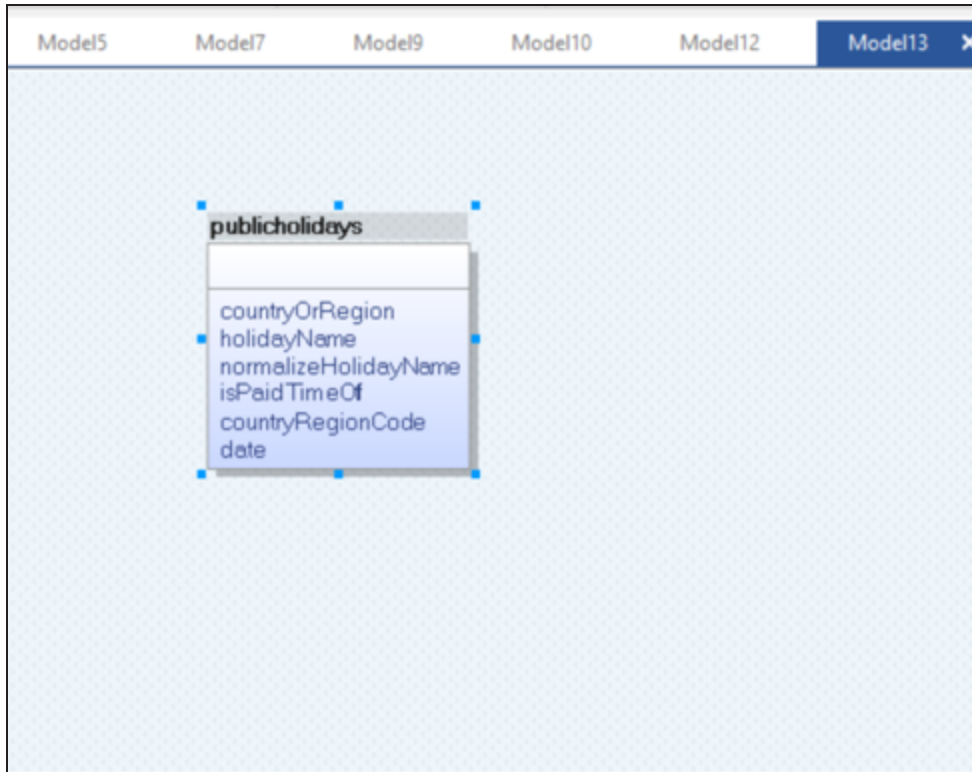
< Back Next > OK Cancel Help

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.

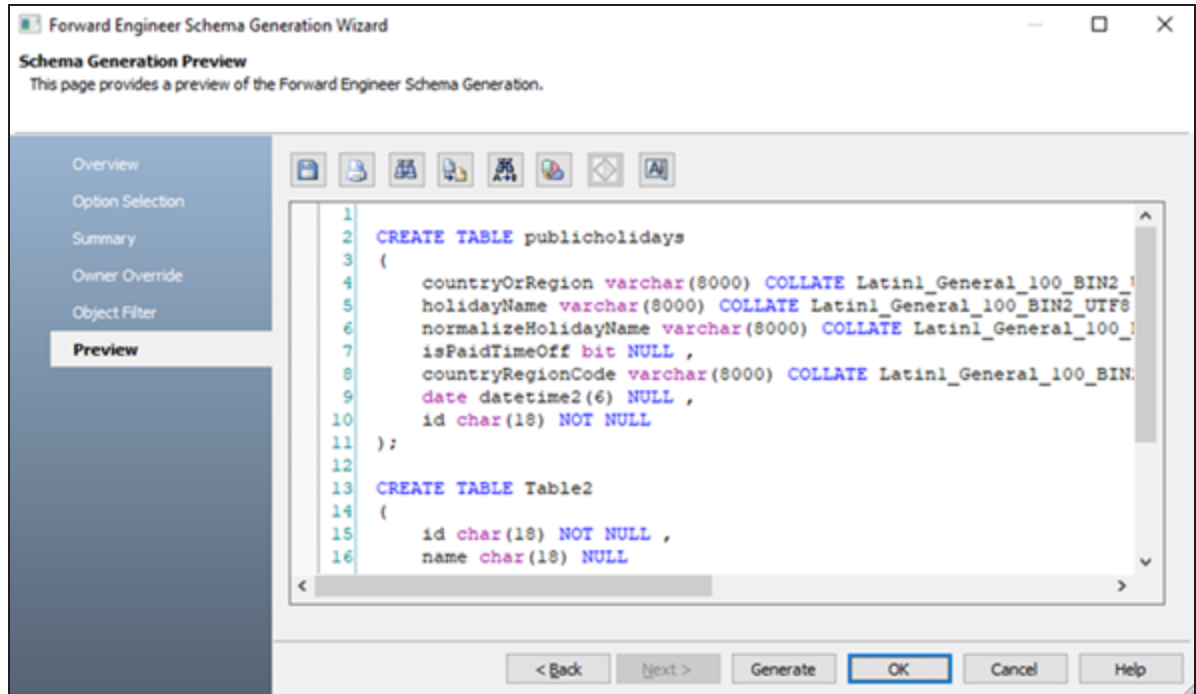


You can work on the data model in erwin DM and then forward engineer your updates to MS Fabric.

To forward engineer your model, follow these steps:

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

Connecting erwin Data Modeler to Microsoft Fabric Warehouse

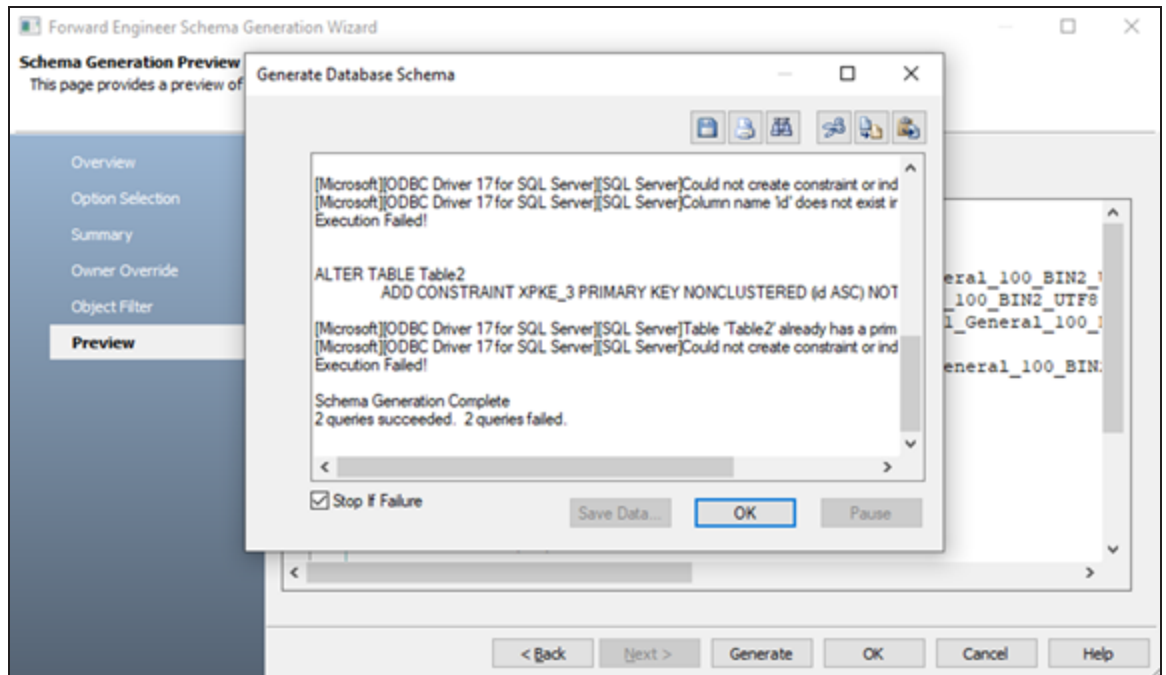


3. Use one of the following options:

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

Connecting erwin Data Modeler to Microsoft Fabric Warehouse

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](#).

Connecting erwin Data Modeler to Microsoft Fabric Warehouse

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