



erwin Data Modeler

Git Support

Release 14.0

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# Introduction

You can connect erwin DM to source control repositories via erwin Mart Portal. This enables you to save Forward Engineering (FE) scripts for a Mart model to your source control repository.

You cannot store FE scripts or DDL on a erwin Mart Portal but only erwin models.

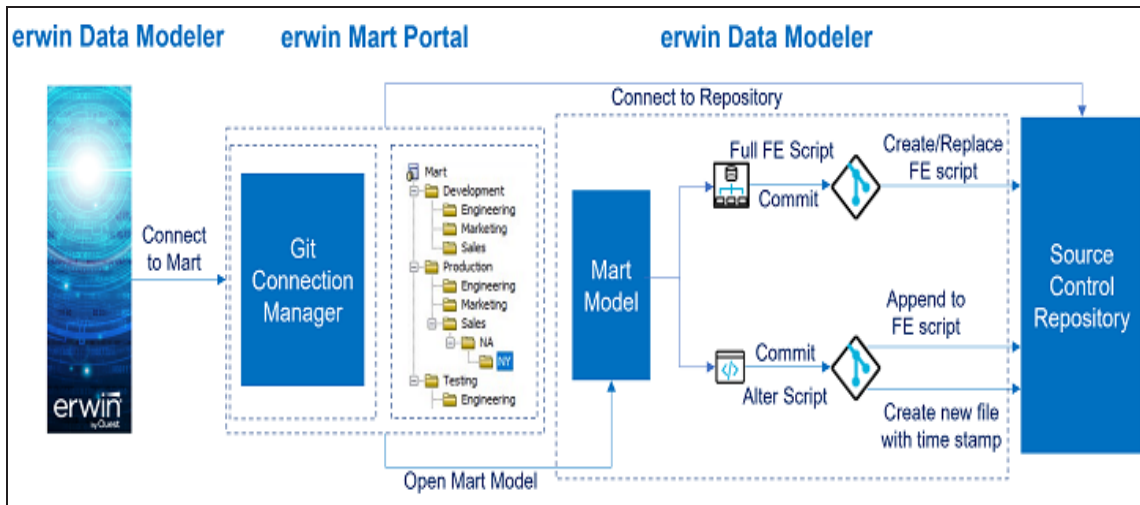
With source control support you can implement:

- DevOps adoption
- collaboration with team members
- version control
- workflow management
- data integrity

Pushing FE scripts to a repository involves:

1. [Connecting erwin DM to erwin Mart Portal](#)
2. [Connecting erwin DM to a repository](#)
3. [Opening a Mart Model and committing FE scripts](#)

To summarize, following is the workflow to commit FE scripts.



## Connecting to Source Control Repositories

A repository may be hosted on GitLab, GitHub, Bitbucket, or Azure DevOps. For a successful connection to these repositories, following are the prerequisites:

- **GitHub Scope:** Ensure that the following minimum scope is configured.

**Select scopes**

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

<input checked="" type="checkbox"/> <b>repo</b>	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input type="checkbox"/> <b>workflow</b>	Update GitHub Action workflows
<input type="checkbox"/> <b>write:packages</b>	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input type="checkbox"/> <b>delete:packages</b>	Delete packages from GitHub Package Registry

## Connecting to Source Control Repositories

---

- **GitLab Scope:** Ensure that the following minimum scope is configured.

**Select scopes**

Scopes set the permission levels granted to the token. [Learn more.](#)

- api**  
Grants complete read and write access to the scoped project API, including the Package Registry.
- read\_api**  
Grants read access to the scoped project API, including the Package Registry.
- read\_repository**  
Grants read access (pull) to the repository.
- write\_repository**  
Grants read and write access (pull and push) to the repository.
- read\_registry**  
Grants read access (pull) to the Container Registry images if a project is private and authorization is required.
- write\_registry**  
Grants write access (push) to the Container Registry.

- **Bitbucket Scope:** Ensure that the following minimum scope is configured.

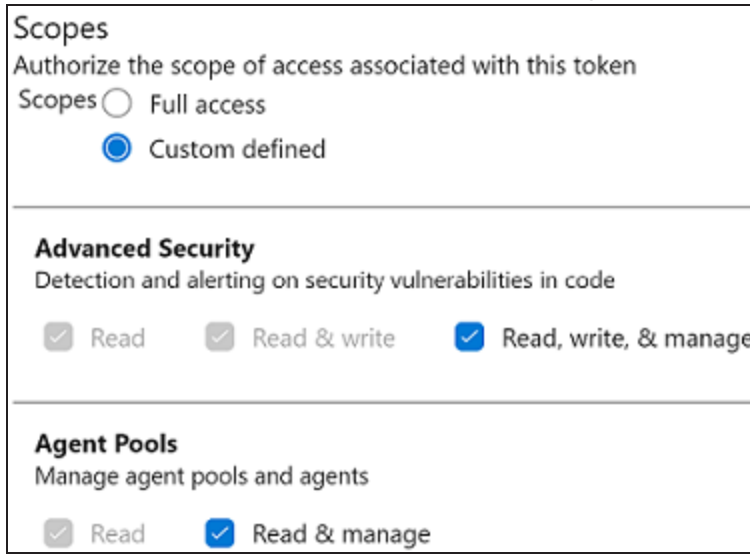
**Scopes**

[Learn more about scopes.](#)

<b>Repositories</b>	<b>Pipelines</b>
<input checked="" type="checkbox"/> Read	<input type="checkbox"/> Read
<input checked="" type="checkbox"/> Write	<input type="checkbox"/> Write
<input type="checkbox"/> Admin	<input type="checkbox"/> Edit variables
<input type="checkbox"/> Delete	<b>Runners</b>
<b>Pull requests</b>	<input type="checkbox"/> Read
<input type="checkbox"/> Read	<input type="checkbox"/> Write
<input type="checkbox"/> Write	
<b>Webhooks</b>	
<input type="checkbox"/> Read and write	

## Connecting to Source Control Repositories

- **Azure DevOps Scope:** Ensure that the following minimum scope is configured.

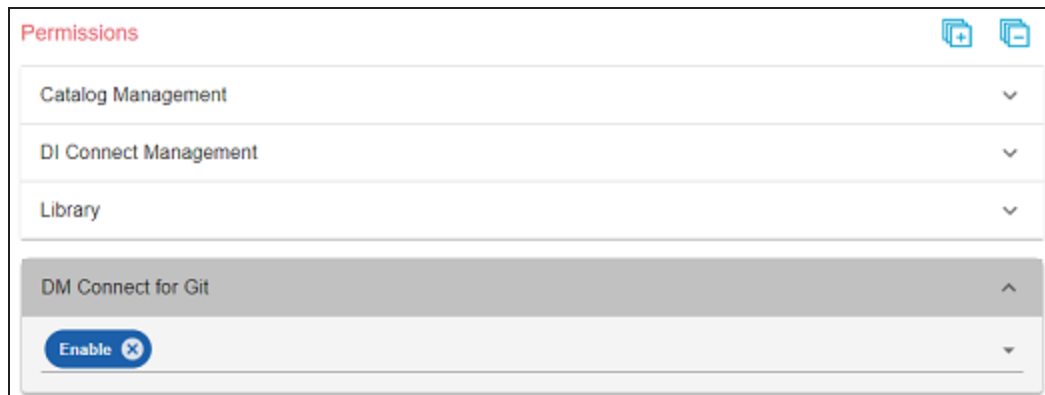


The screenshot shows the 'Scopes' configuration for an Azure DevOps token. It is divided into three sections:

- Scopes:** 'Authorize the scope of access associated with this token'. The 'Full access' radio button is unselected, and the 'Custom defined' radio button is selected.
- Advanced Security:** 'Detection and alerting on security vulnerabilities in code'. Three checkboxes are present: 'Read' (checked), 'Read & write' (checked), and 'Read, write, & manage' (checked).
- Agent Pools:** 'Manage agent pools and agents'. Two checkboxes are present: 'Read' (checked) and 'Read & manage' (checked).

- **erwin Mart:** Ensure that,
  - erwin DM is connected to erwin Mart Portal. For more information, refer to the [Connect to Mart](#) topic.

Ensure that the following minimum permission is configured.



The screenshot shows the 'Permissions' configuration interface in erwin Mart. It features a list of permissions with expandable dropdown menus:

- Catalog Management
- DI Connect Management
- Library
- DM Connect for Git** (highlighted in grey)

Below the list, there is a blue 'Enable' button with a close icon (X).

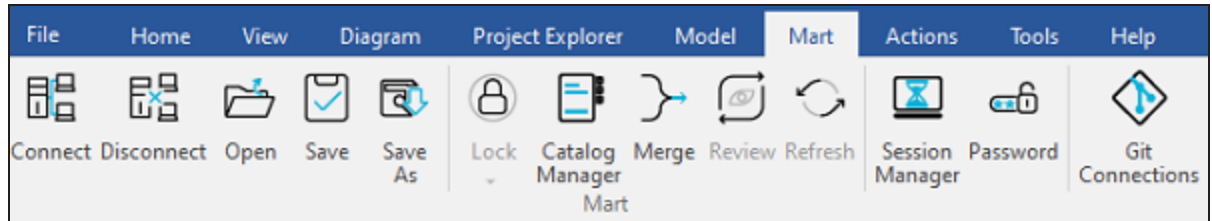
This permission is not available for Viewer profile.

- **Personal Access Token:** Ensure that you have created the required personal access token. To know how to create personal access tokens for GitLab, refer to the GitLab documentation, for GitHub, refer to the GitHub documentation and for Azure DevOps, refer to the Azure DevOps documentation.

## Connecting to Source Control Repositories

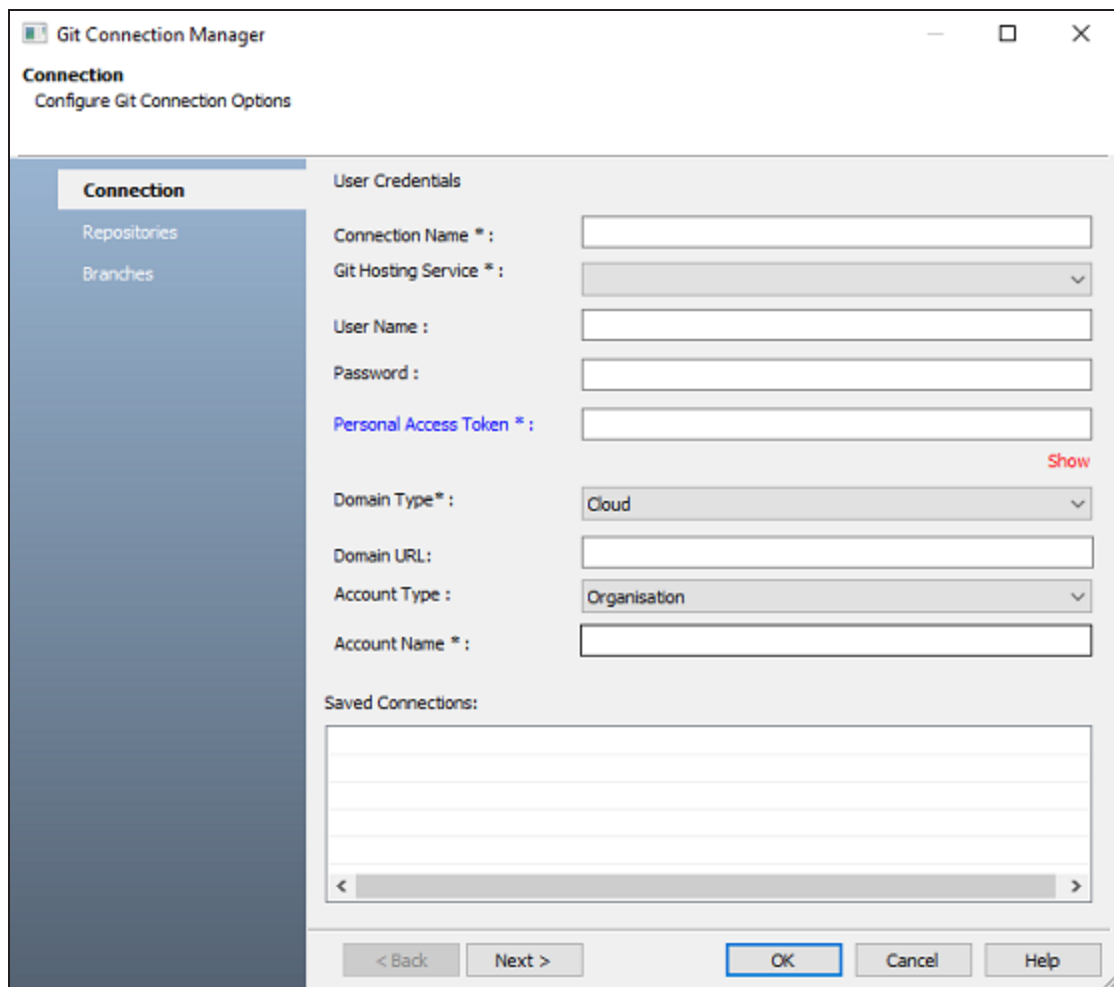
Once, these prerequisites are in place, to connect your repositories to erwin DM, follow these steps:

1. On the ribbon, click **Mart**.



2. Click **Git Connections**.

The Git Connection Manager opens.

A screenshot of the 'Git Connection Manager' dialog box. The title bar reads 'Git Connection Manager'. Below the title bar, there is a section titled 'Connection' with the subtitle 'Configure Git Connection Options'. On the left side, there is a navigation pane with three items: 'Connection' (selected), 'Repositories', and 'Branches'. The main area contains several input fields and dropdown menus under the heading 'User Credentials':

- 'Connection Name \*': A text input field.
- 'Git Hosting Service \*': A dropdown menu.
- 'User Name': A text input field.
- 'Password': A text input field.
- 'Personal Access Token \*': A text input field with a 'Show' link to its right.
- 'Domain Type \*': A dropdown menu with 'Cloud' selected.
- 'Domain URL': A text input field.
- 'Account Type': A dropdown menu with 'Organisation' selected.
- 'Account Name \*': A text input field.

Below these fields is a section titled 'Saved Connections:' with a list box containing several empty rows and a scrollbar. At the bottom of the dialog, there are four buttons: '< Back', 'Next >', 'OK', 'Cancel', and 'Help'.

## Connecting to Source Control Repositories

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By default, the Connection tab opens.

3. Enter appropriate values in the fields. Based on your Git Hosting Service, the available connection parameters differ.

Refer to the following table for field descriptions.

Field Name	Description	Additional Information
Connection Name	Specifies a user-defined connection name	For example, TechPubsConnect. You can create multiple connections one for each repository.
Git Hosting Service	Specifies the source control hosting service to which erwin DMconnects	You can connect to a repository hosted on one of the following services: <ul style="list-style-type: none"><li>• GitLab (on-premises/cloud)</li><li>• GitHub (on-premises/cloud)</li><li>• Bitbucket (cloud)</li><li>• Azure DevOps (cloud)</li></ul>
User Name	Specifies the user-name to log on to the hosting service	This field is not mandatory.
Password	Specifies the password to log on to the hosting service	This field is not mandatory.
Personal Access Token	Specifies the personal access token to connect to the hosting service	
Access Token	Specifies the personal access token to connect to the Bitbucket hosting service	This option is available only when the Git Hosting Service option is set to Bitbucket. You can click the Access Token field label to learn about creating tokens and their types.

## Connecting to Source Control Repositories

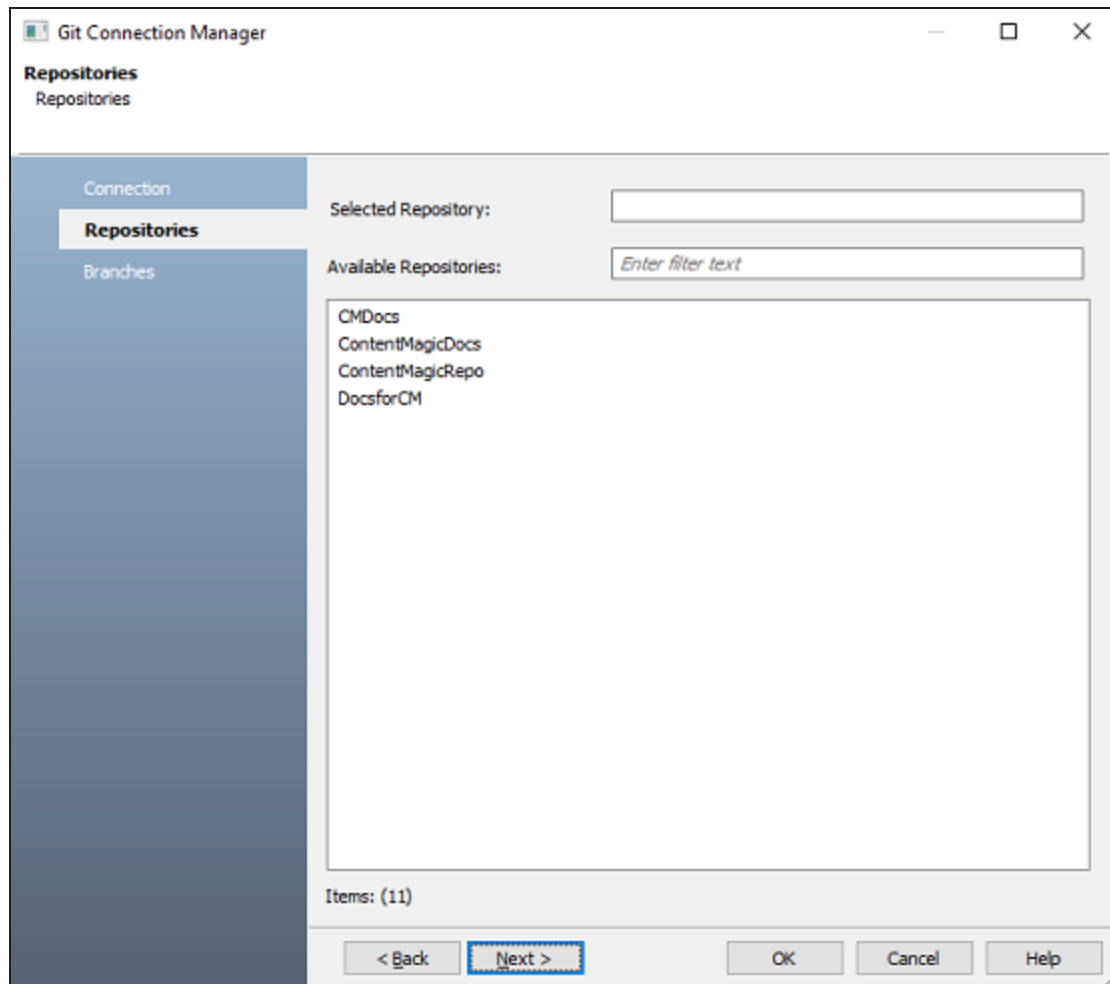
Field Name	Description	Additional Information
Domain Type	Specifies whether the connection connects to a cloud account or an on-premise account	
Domain URL	Specifies the URL of your organization's source control account	<p>The value of this field depends on the value set for Domain Type as follows:</p> <ul style="list-style-type: none"> <li> <b>Domain Type is set to On-Premise:</b> This field is mandatory. Specify your organization's Git hosting service URL till the organization name. Do not include user account or repository name in the URL.                       For example, <code>https://github.com/quest-TechPubs/</code>, where quest-TechPubs is the organization on github.com.                 </li> <li> <b>Domain Type is set to Cloud:</b> This field is not mandatory. However, you can specify the common URL of your Git hosting service.                       For example, <code>https://github.com</code> </li> </ul>
Account Type	Specifies whether the organization name or username should be used for your connection	
Account Name	Depending on your selection in Account Type option, specifies the organ-	<p>For example, if <code>https://github.com/quest-TechPubs/</code> is your GitHub organization and you log in to it using a username, TechWriter:</p> <ul style="list-style-type: none"> <li>If Account Type is Organisation,</li> </ul>

## Connecting to Source Control Repositories

Field Name	Description	Additional Information
	ization name or user-name	Account Name is quest-TechPubs • If Account Type is User, Account Name is TechWriter

4. Click **Next**.

The **Repositories** tab appears and displays the list of repositories available to your source control account.



5. Select the repository where you want to push forward engineering scripts.

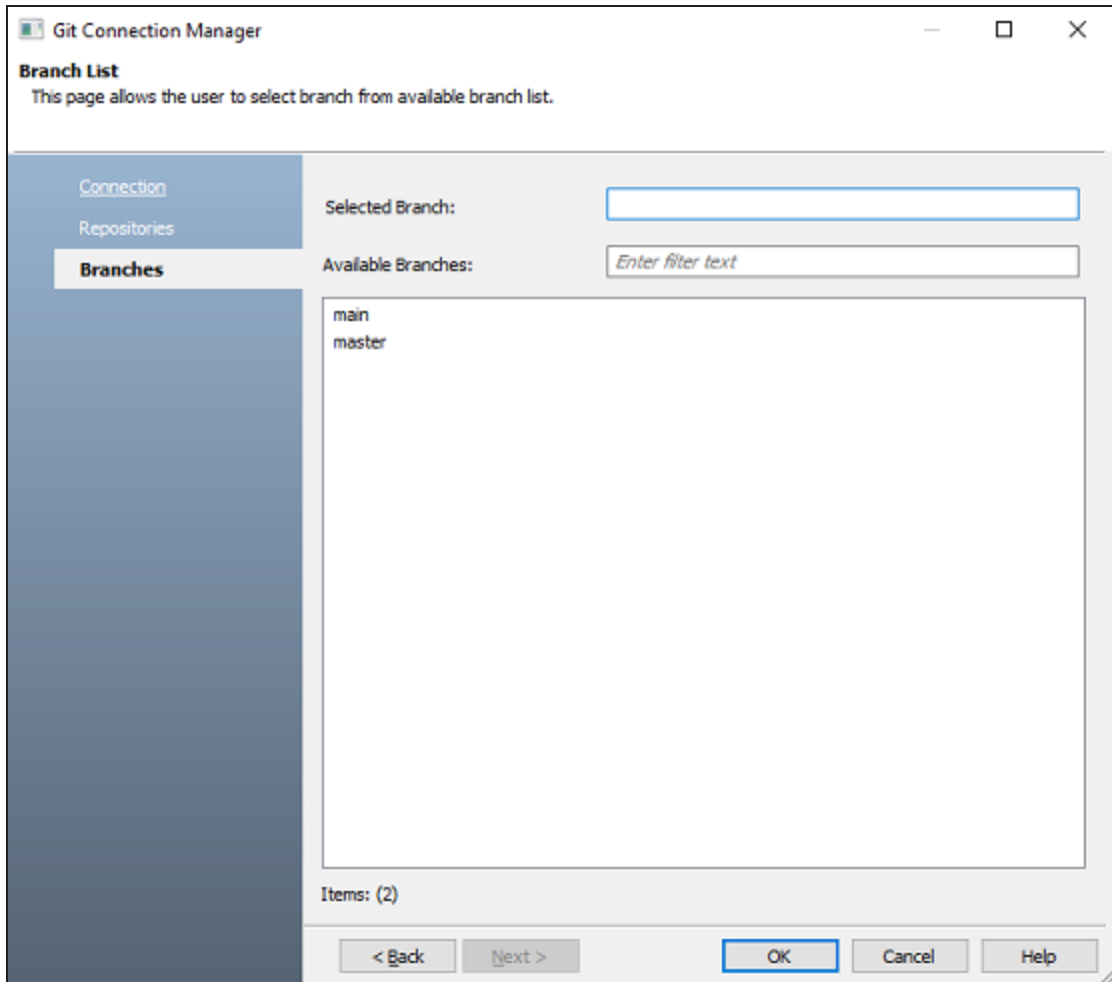
## Connecting to Source Control Repositories

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You can also use the Available Repositories field to filter the list of repositories by name.

6. Click **Next**.

The **Branches** tab appears and displays the list branches available in the selected repository.



7. Select the branch where you want to push forward engineering scripts and then click **OK**.

On successful connection, the connection name appears under Saved Connections.

## Connecting to Source Control Repositories

**Connection**

Repositories

Branches

**User Credentials**

Connection Name \* : erwinTechPubs

Git Hosting Service \* : Github

User Name :

Password :

Personal Access Token\* : \*\*\*\*\* Show

Domain Type\* : Cloud

Domain URL :

Account Type : User

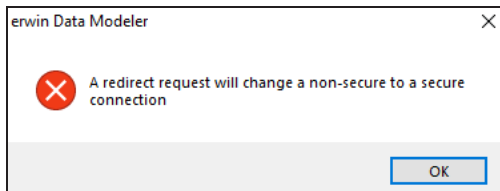
Account Name \* :

Saved Connections:

erwinTechPubs

## Troubleshooting

While setting up your connection, you may encounter the following error:

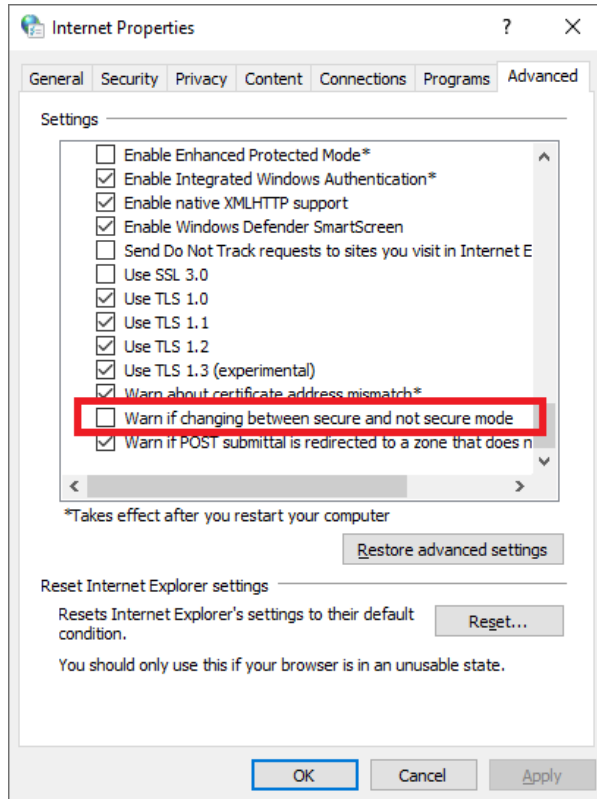


To resolve this error, follow these steps:

1. On your system, go to **Control Panel > Internet Options > Advanced Tab**.
2. Under the Security category, clear the **Warn if changing between secure and not secure mode** check box.

## Connecting to Source Control Repositories

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3. Click **OK**.
  4. Close and reopen erwin DM.
  5. Connect erwin DM to erwin Mart Portal.
  6. Open the Git Connection Manager and configure your source control connection.
- Once you are connected to a repository, you can [commit FE scripts](#).

## Committing Forward Engineering Scripts

There are two scenarios in which you commit Forward Engineering (FE) scripts to a Git repository:

- **Scenario 1: Committing new or full FE scripts:**

Use the Forward Engineer Schema Generation Wizard to commit a physical database schema or FE script from a Mart Model.

To avoid script files from being overwritten, ensure that you use unique file names.

- **Scenario 2: Committing alter scripts:**

Use the Forward Engineer Alter Script Schema Generation Wizard to commit an alter script after you make changes to a Mart Model. You can commit an alter script in two ways:

- **Commit and append an alter script to an existing script file**
- **Commit and create a new alter script file in the Git repository**

For more information, refer to the Scenario 2: Committing Alter Scripts topic.

## Scenario 1: Committing New or Full FE Scripts

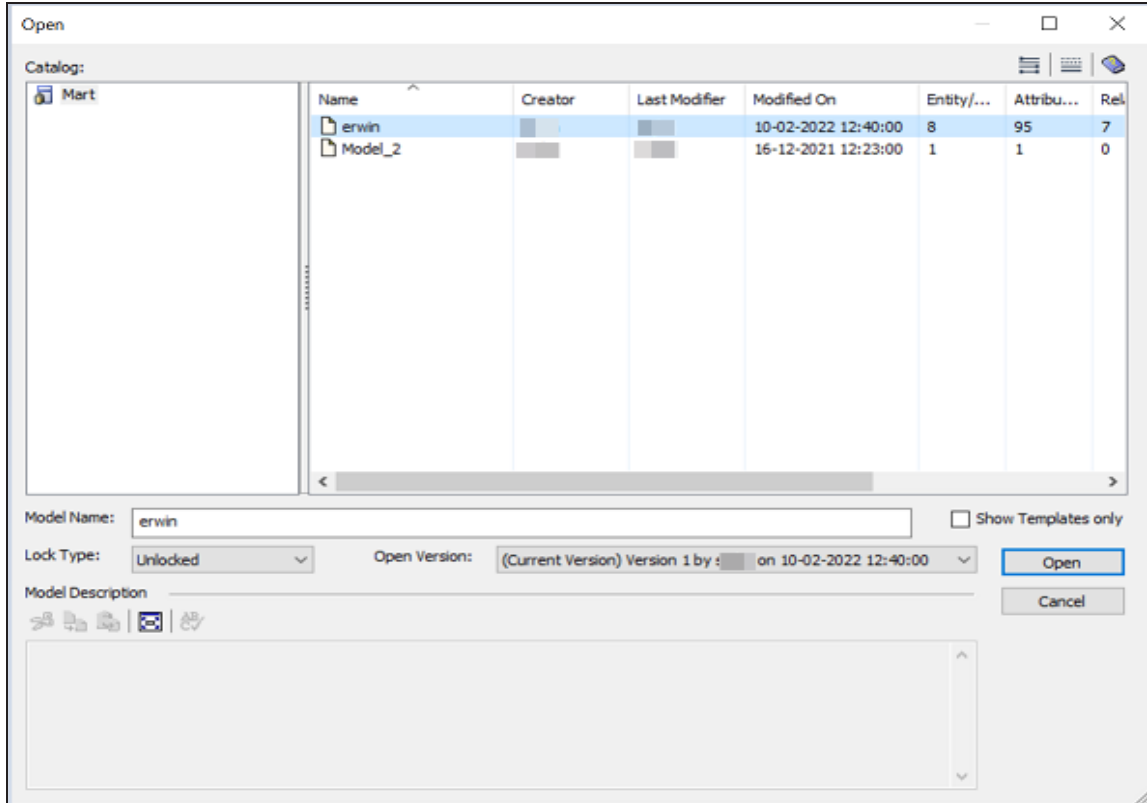
The Forward Engineer Schema Generation Wizard generates a physical database schema or Forward Engineering (FE) script. For a Mart Model, you can push the FE script to a Git repository.

To commit new or full FE scripts to Git repositories, follow these steps:

1. On the ribbon, go to **Mart > Open**.

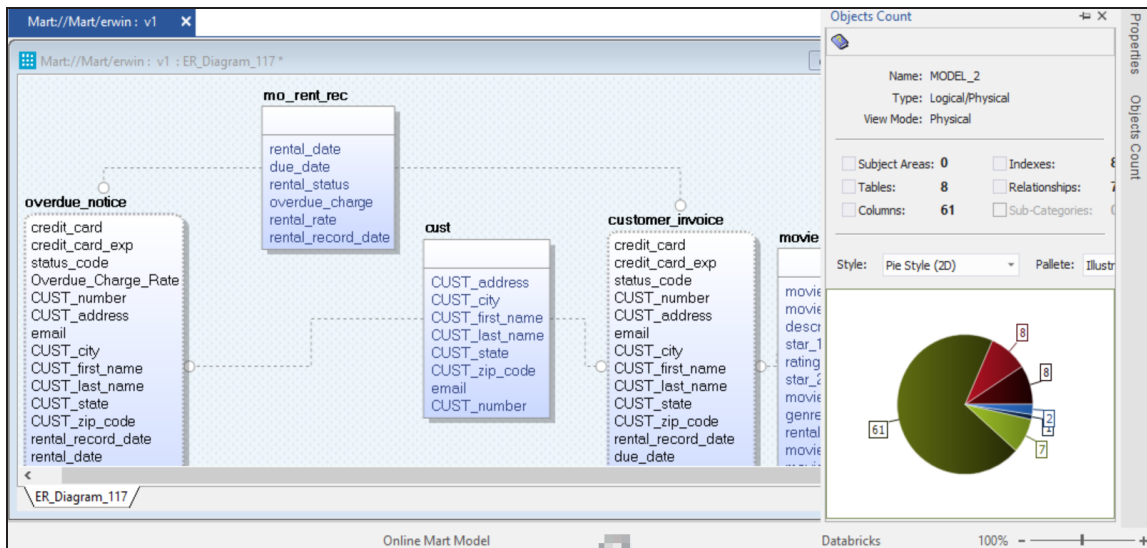
The Open page appears.

## Committing Forward Engineering Scripts



2. Select a model, and then click **Open**.

The Mart Model opens.

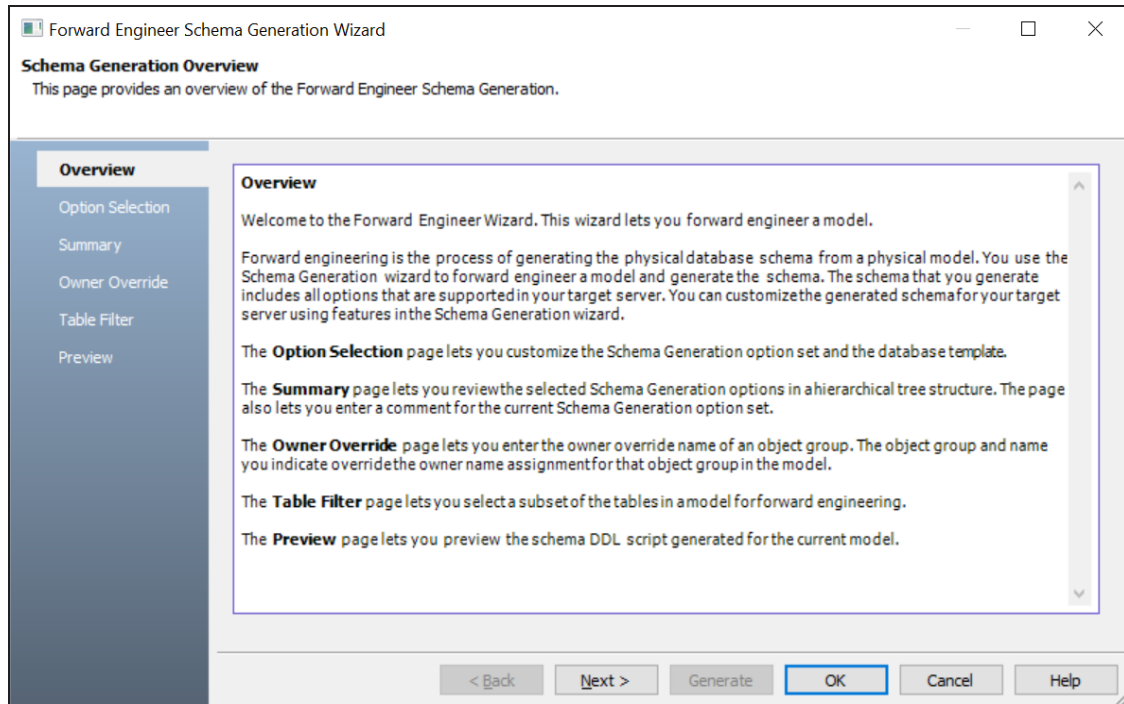


## Committing Forward Engineering Scripts

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### 3. Go to **Actions > Schema**.

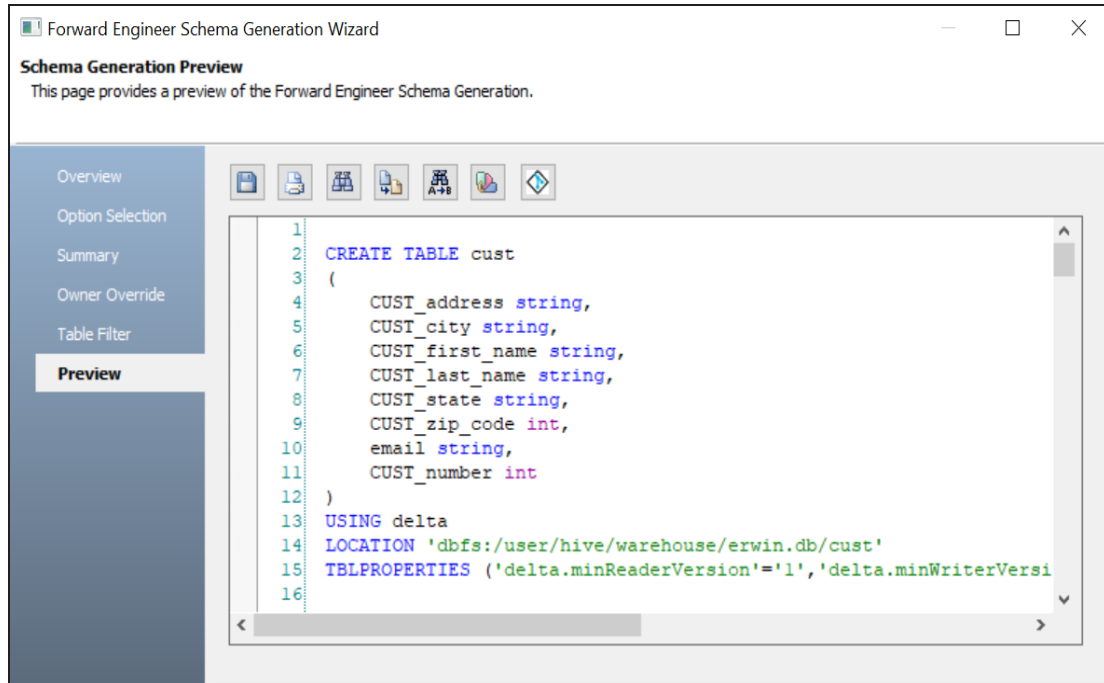
The Forward Engineer Schema Generation Wizard appears.



### 4. On the **Forward Engineer Schema Generation Wizard**, click the **Preview** section.

The FE script appears. For example, in the following image the Preview section displays FE script of a Databricks database. For more information on generating FE scripts, refer to the [Forward Engineering/Schema Generation for Databases](#) topic.

## Committing Forward Engineering Scripts



5. Click .

The Commit to Git screen appears.

The screenshot shows the 'Commit to Git' dialog box. It contains the following fields and controls:

- Connected To\*: ConnectGit (dropdown menu)
- Git Repository\*:
- Git Branch\*:
- File Name\*:
- Git Path:
- Commit Summary\*:
- Author Name:
- Author Email ID:
- Local Path:

At the bottom of the dialog, there are three buttons: Commit, Cancel, and Help.

## Committing Forward Engineering Scripts

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6. Enter appropriate values in the fields. Fields marked with an asterisk (\*) are mandatory. Refer to the following table for field descriptions.

Field Name	Description	Additional Information
Connected To	Specifies the connection that connects erwin DM to a Git repository	For example, ConnectGit.
Git Repository	Specifies the Git repository configured for the connection	For example, <a href="https://gitlab.com/d4215/GitLabIntegration">https://gitlab.com/d4215/GitLabIntegration</a> is set for the ConnectGit connection. This field autopopulates based on the repository configured in the Git Connection Manager.
Git Branch	Specifies the Git branch configured for the connection	For example, main is set for the ConnectGit connection. This field autopopulates based on the repository configured in the Git Connection Manager.
File Name	Specifies the user-defined name of the FE script file being committed to a Git repository	For example, Databricks-Sales-Data.sql To avoid script files from being overwritten, ensure that you use unique file names.
Git Path	Specifies the location in the Git repository where the FE script is committed	For example, FY2022/ The FE script is committed to the FY2022 folder inside the root folder of your Git repository.
Commit Summary	Specifies the summary of the push commit	For example, Sales Rectification.
Author Name	Specifies the name of the author pushes the commit	
Author Email ID	Specifies the email address of the author pushes the commit	

## Committing Forward Engineering Scripts

Field Name	Description	Additional Information
Local Path	Specifies the location on your local machine where the FE script is saved	C:\Users\SO\Documents\Databricks

### 7. Click **Commit**.

The FE script file is saved on the local path and committed to the Git repository.

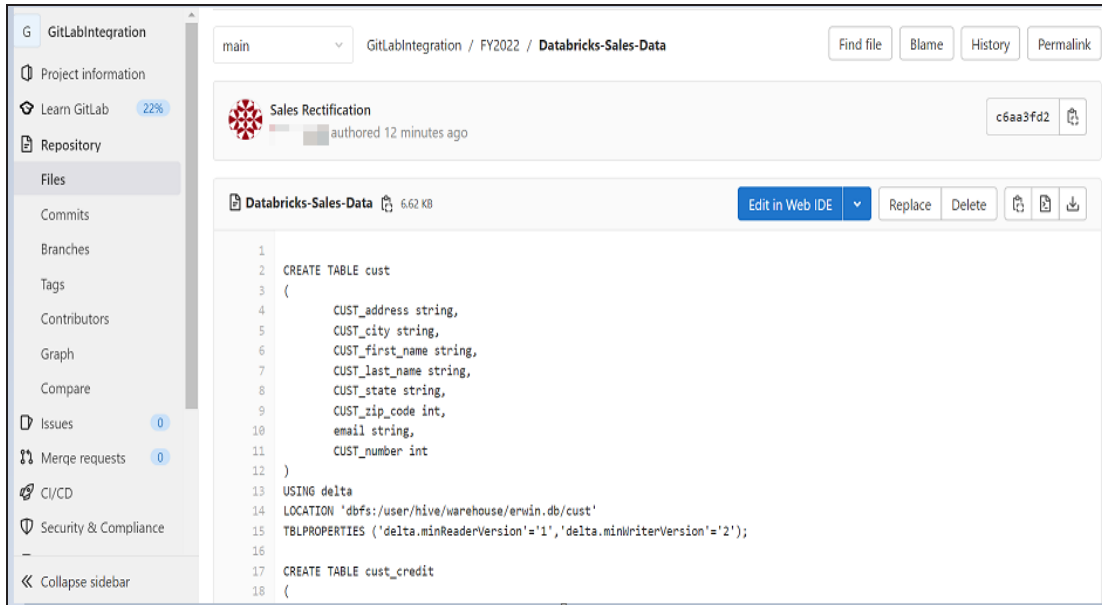
For example, in the following image, FE script is committed to a GitLab repository in a file, Databricks-Sales-Data, with a commit summary, Sales Rectification using the main branch.

The screenshot shows the GitLab interface for a repository named 'GitLabIntegration'. The current branch is 'main'. The commit path is 'GitLabIntegration / FY2022 /'. The commit message is 'Sales Rectification' with a commit hash of 'c6aa3fd2'. The commit was authored 'just now'. A table below lists the files included in the commit:

Name	Last commit	Last update
..		
.gitkeep	Add new directory	4 days ago
Databricks	Sales Data	4 days ago
Databricks-Sales-Data	Sales Rectification	just now
HumanResourceData	HR Data	3 days ago
PII	Confidential	3 days ago
WebSecurityIssues	PII	3 days ago

You can click the file to review its content. For example, in the following image, Databricks-Sales-Data's content is visible.

## Committing Forward Engineering Scripts



You can use FE Schema Generation Wizard to commit FE script using the same connection again. The Commit to Git screen autopopulates the previously set values in File Name and Git Path.

For example, in the following image File Name is set to Databricks-Sales-Data and Git Path is set to FY2022/.

The 'Commit to Git' dialog box contains the following fields and buttons:

- Connected To\*: ConnectGit
- Git Repository\*: <https://gitlab.com/d4215/GitLabIntegration>
- Git Branch\*: main
- File Name\*: Databricks-Sales-Data
- Git Path: FY2022/
- Commit Summary\*: (empty)
- Author Name: (empty)
- Author Email ID: (empty)
- Local Path: (empty) with a 'Browse...' button

Buttons at the bottom: Commit, Cancel, Help

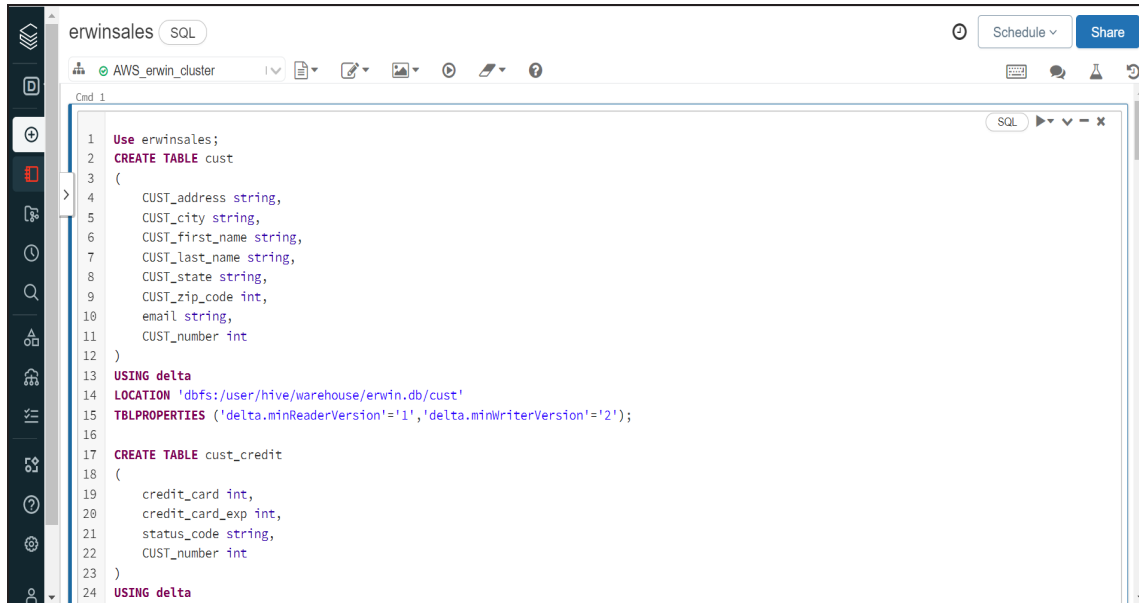
## Committing Forward Engineering Scripts

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Committing the FE script again with the same File Name and Git Path overwrites the previous file in the Git repository.

Once the FE script is committed, you can run it on your database to generate and verify the physical schema.

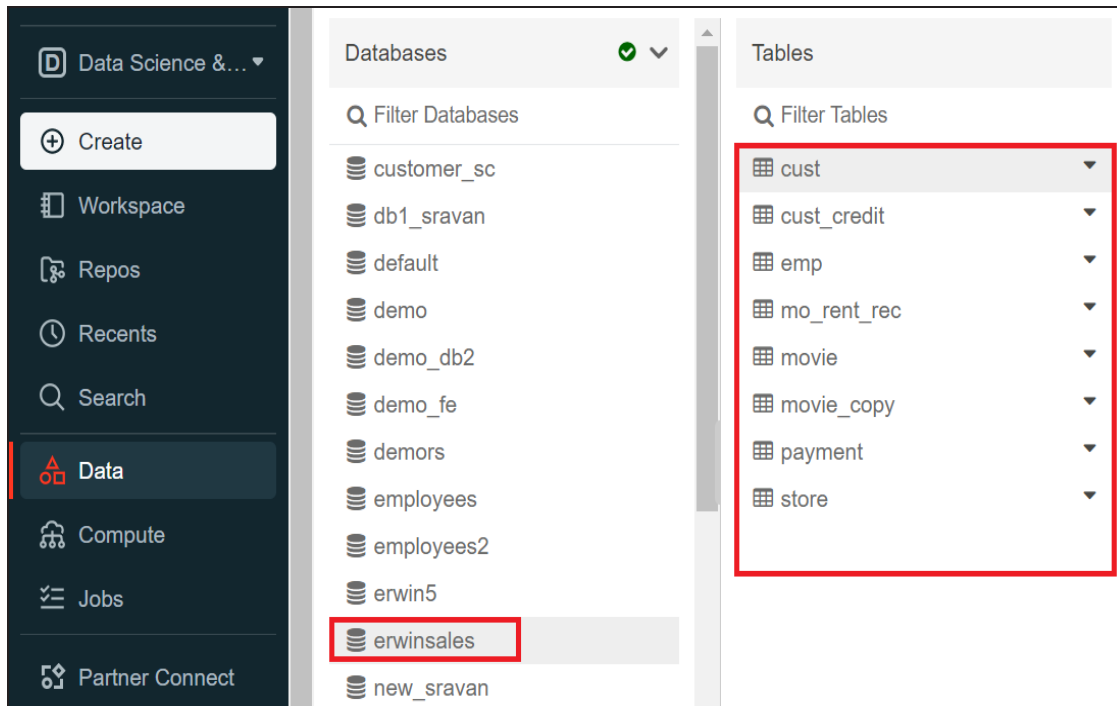
For example, in the following Databricks database, the FE script copied from the Git repository is run.



```
1 Use erwinsales;
2 CREATE TABLE cust
3 (
4     CUST_address string,
5     CUST_city string,
6     CUST_first_name string,
7     CUST_last_name string,
8     CUST_state string,
9     CUST_zip_code int,
10    email string,
11    CUST_number int
12 )
13 USING delta
14 LOCATION 'dbfs:/user/hive/warehouse/erwin.db/cust'
15 TBLPROPERTIES ('delta.minReaderVersion'='1','delta.minWriterVersion'='2');
16
17 CREATE TABLE cust_credit
18 (
19     credit_card int,
20     credit_card_exp int,
21     status_code string,
22     CUST_number int
23 )
24 USING delta
```

After running the FE script, the required database objects are created. You can access these objects from the database. For example, the following tables can be accessed in a Databricks database.

## Committing Forward Engineering Scripts



## Scenario 2: Committing Alter Scripts

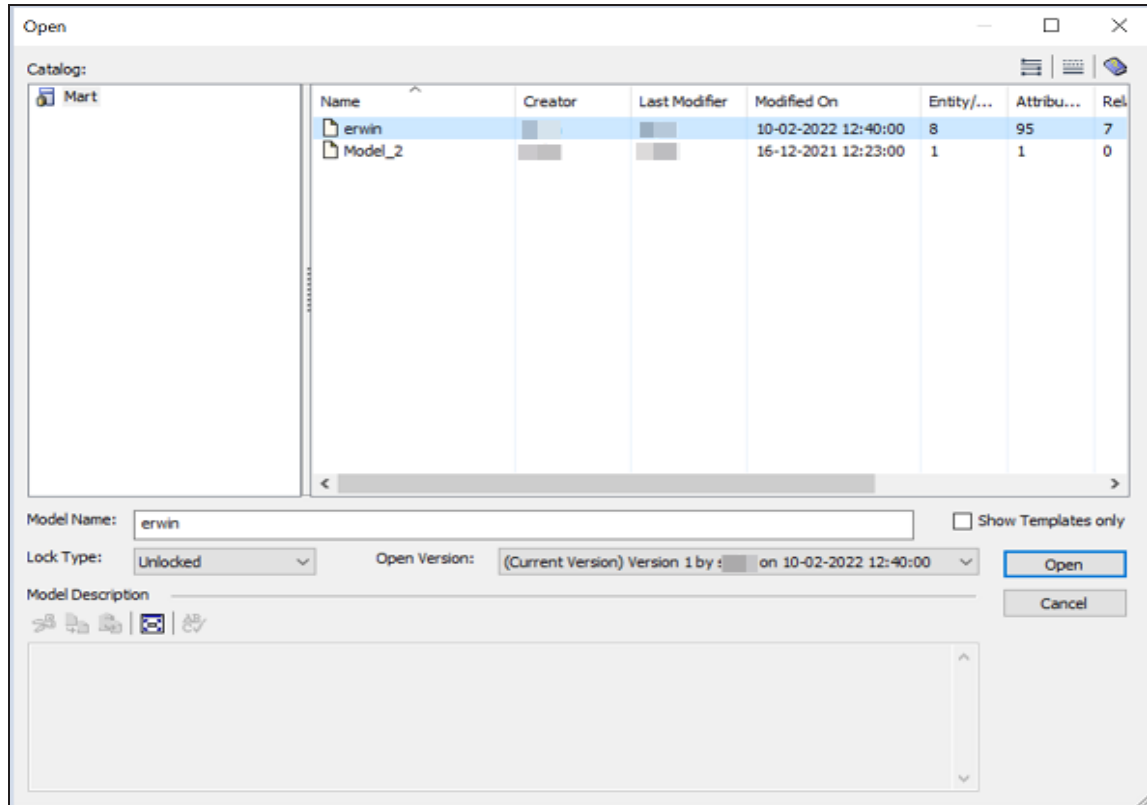
The Forward Engineer Alter Schema Generation Wizard generates an alter script for a database after you make changes to a model. For a Mart Model, you can push the alter script to a Git repository.

To commit alter scripts to Git repositories, follow these steps:

1. On the ribbon, go to **Mart > Open**

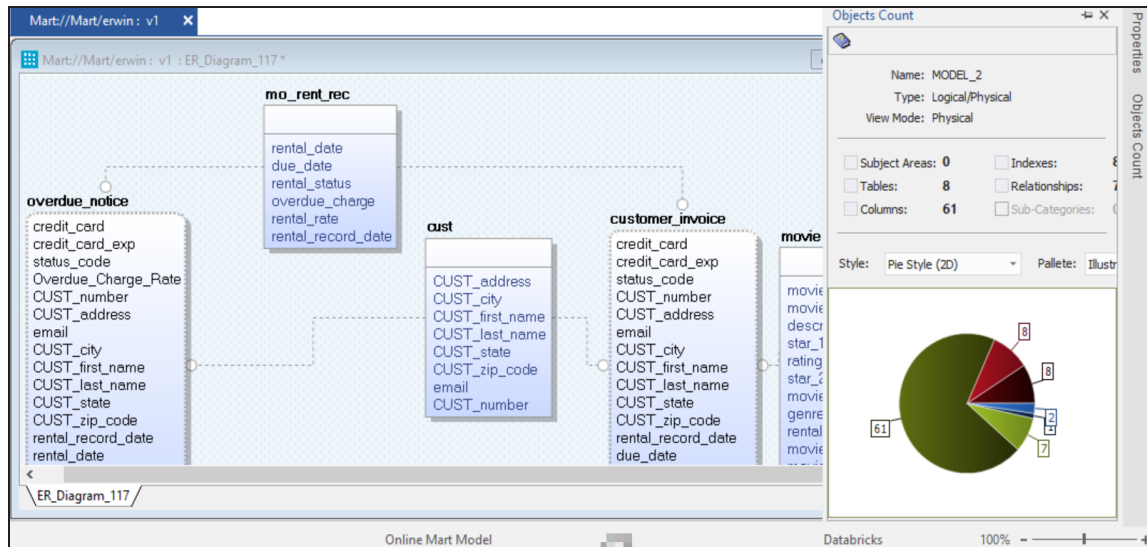
The Open page appears.

## Committing Forward Engineering Scripts



2. Select a model, and then click **Open**.

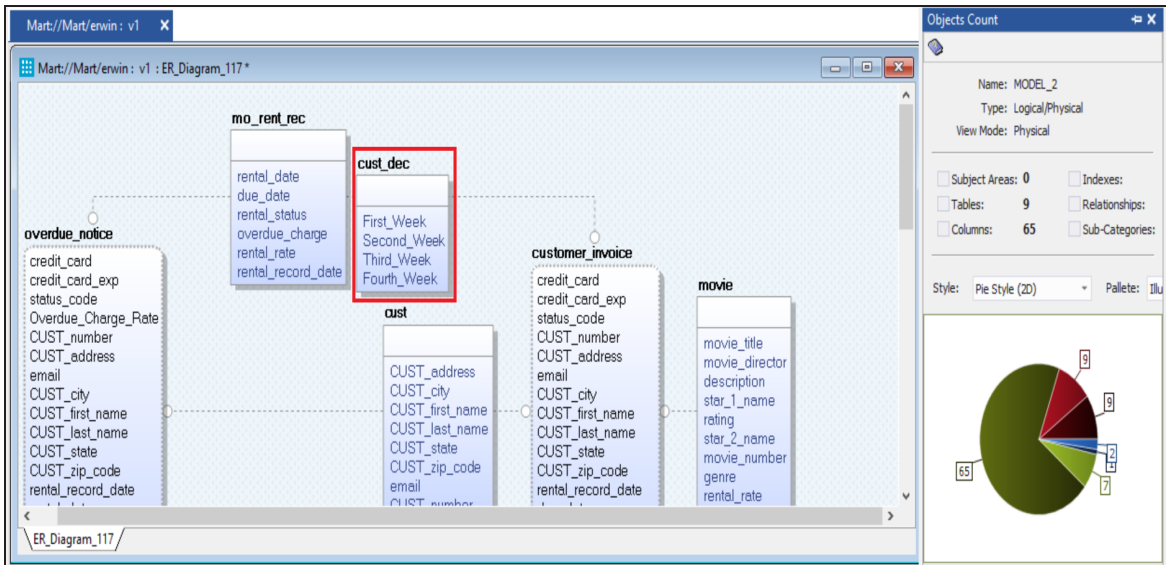
The Mart Model opens.



## Committing Forward Engineering Scripts

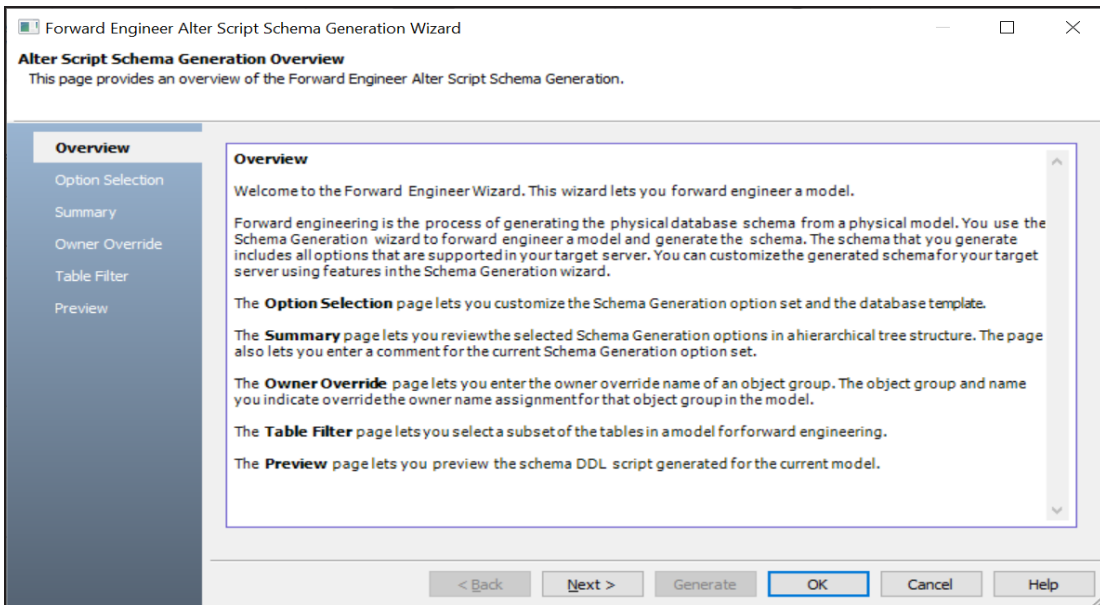
3. Make the required changes in the model.

For example, in the following model, a new table, `cust_dec` with four columns is added.



4. Go to **Actions > Alter Script**.

The Forward Engineer Alter Script Schema Generation Wizard appears.

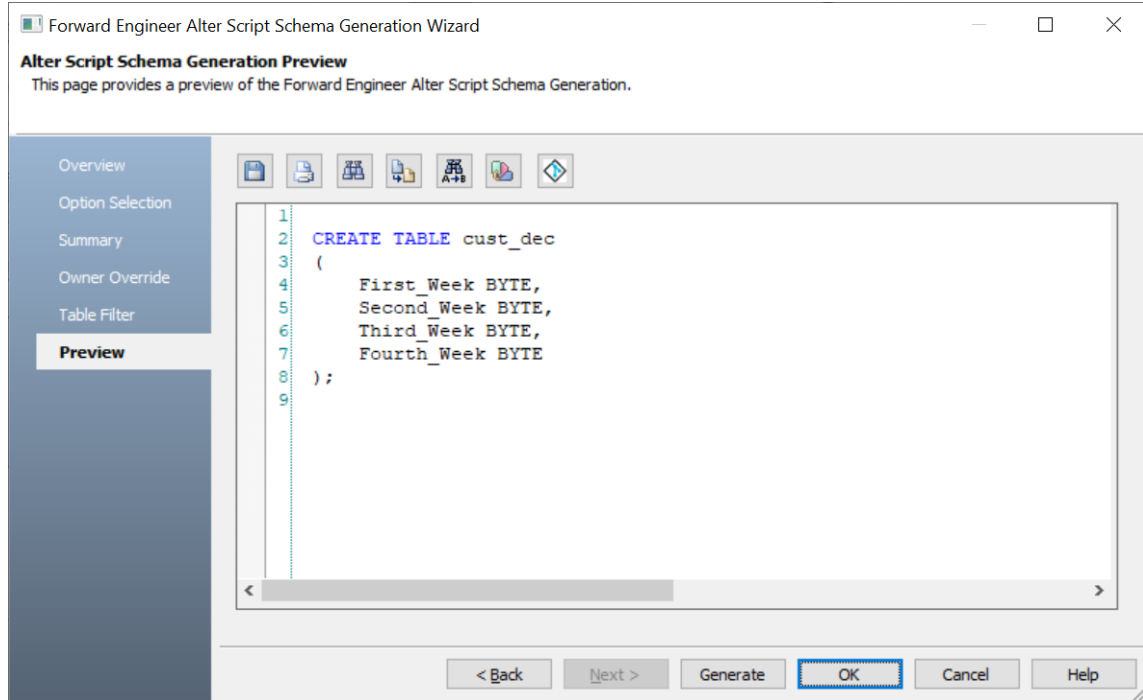


5. On the Forward Engineer Alter Schema Generation Wizard, click the **Preview** section.

## Committing Forward Engineering Scripts

The alter script appears. For more information on generating alter scripts, refer to the [Generating Alter Script for Databases](#) topic.

For example, in the following image the Preview section displays an alter script of a Databricks database.



6. Click .

The Commit to Git screen appears. The File Name and Git Path values autopopulates with the values configured in the previous commit. You can update the File Name and Git Path as per the requirement.

## Committing Forward Engineering Scripts

7. Enter appropriate values in the fields. Fields marked with an asterisk (\*) are mandatory. Refer to the following table for field descriptions.

Field Name	Description	Additional Information
Connected To	Specifies the connection that connects erwin DM to a Git repository	For example, ConnectGit.
Git Repository	Specifies the Git repository configured for Connection	For example, https://-gitlab.com/d4215/GitLabIntegration is set for the ConnectGit connection. This field autopopulates based on the repository configured in the Git Connection Manager.
Git Branch	Specifies the Git branch that was set for connection in the Git Connection Manager	For example, main is set for the ConnectGit connection. This field autopopulates based on the repository configured in the Git Connection Manager.

## Committing Forward Engineering Scripts

Field Name	Description	Additional Information
File Name	Specifies the user-defined name of the FE script file being committed to a Git repository	For example, Databricks-Sales-Data.sql
Git Path	Specifies the location in the Git repository where the FE script is committed	For example, FY2022/ The FE script is committed to the FY2022 folder inside the root folder of your Git repository.
Commit Summary	Specifies the summary of the push commit	For example, Append December Sales.
Author Name	Specifies the name of the author pushes the commit	
Author Email ID	Specifies the email address of the author pushes the commit	
Local Path	Specifies the location on your local machine where the Alter script is saved	C:\Users\SO\Documents\Databricks
Auto Append	Specifies whether the alter script is appended to the file set in File Name and Git	By default, the Auto Append check box is selected. To create a new script file, clear the Auto Append check box and set the File Name and File Path belonging to an existing file. A new file with the following naming convention: <File Name>_YYYY-MM-DD_HH-MM-SS is created.

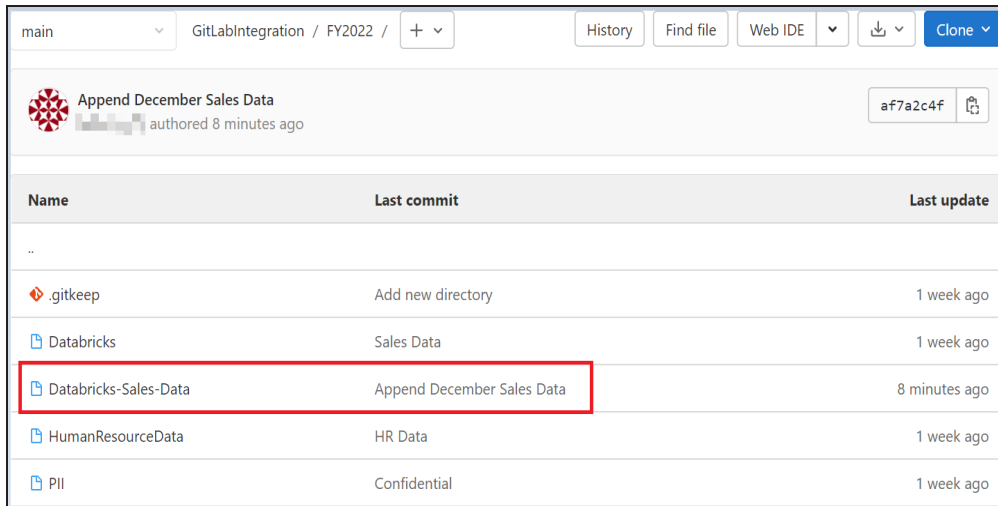
## Committing Forward Engineering Scripts

Field Name	Description	Additional Information
	Path	Ensure that you use this check box consistently every time you commit an alter script.

### 8. Click **Commit**.

The alter script file is saved on the local path and committed to the Git repository.

For example, in the following image, an alter script file is committed to a GitLab repository and appended to an existing file, Databricks-Sales-Data, with a commit summary, Append December Sales using the main branch.



You can click the file to review its content. For example, in the following image, Databricks-Sales-Data contains the alter script.

## Committing Forward Engineering Scripts

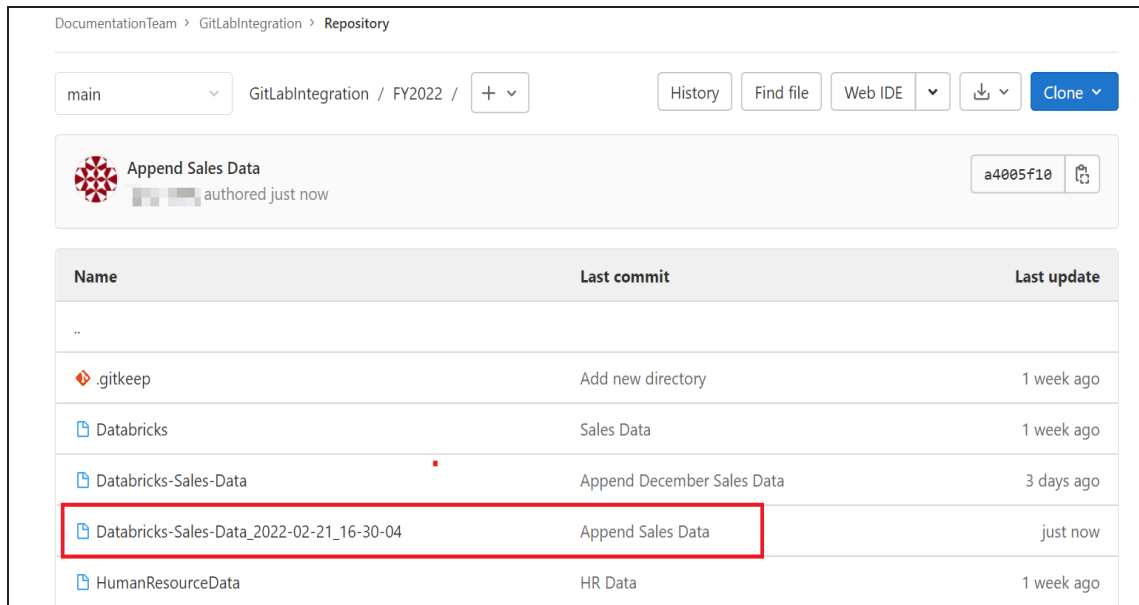
---

```
21     status_code string,
22     CUST_number int
23 )
24 USING delta
25 LOCATION 'dbfs:/user/hive/warehouse/erwin.db/cust_credit'
26 TBLPROPERTIES ('delta.minReaderVersion'='1','delta.minWriterVersion'='2');
27
28 CREATE TABLE cust_dec
29 (
30     First_Week BYTE,
31     Second_Week BYTE,
32     Third_Week BYTE,
33     Fourth_Week BYTE
34 );
35
36 CREATE TABLE emp
37 (
38     EMP_first_name string,
39     EMP_address string,
40     EMP_phone int,
41     EMP_address_2 string,
42     email string,
43     salary int,
44     hire_date timestamp,
45     soc_sec_number int,
46     EMP_number string
```

Clearing the Auto Append check box and setting the File Name and File Path belonging to an existing file creates a new file with the following naming convention: <File Name>\_YYYY-MM-DD\_HH-MM-SS.

For example, in the following image, a file is created with a time stamp in a Git repository.

## Committing Forward Engineering Scripts



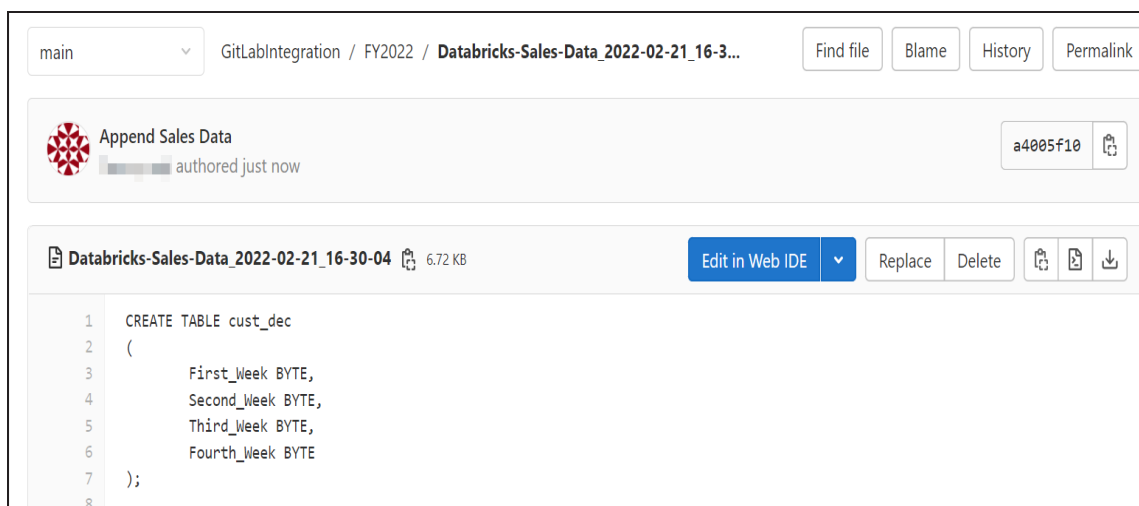
DocumentationTeam > GitLabIntegration > Repository

main GitLabIntegration / FY2022 / + History Find file Web IDE Clone

Append Sales Data a4005f10 authored just now

Name	Last commit	Last update
..		
.gitkeep	Add new directory	1 week ago
Databricks	Sales Data	1 week ago
Databricks-Sales-Data	Append December Sales Data	3 days ago
Databricks-Sales-Data_2022-02-21_16-30-04	Append Sales Data	just now
HumanResourceData	HR Data	1 week ago

This file contains only the alter script.



main GitLabIntegration / FY2022 / Databricks-Sales-Data\_2022-02-21\_16-3... Find file Blame History Permalink

Append Sales Data a4005f10 authored just now

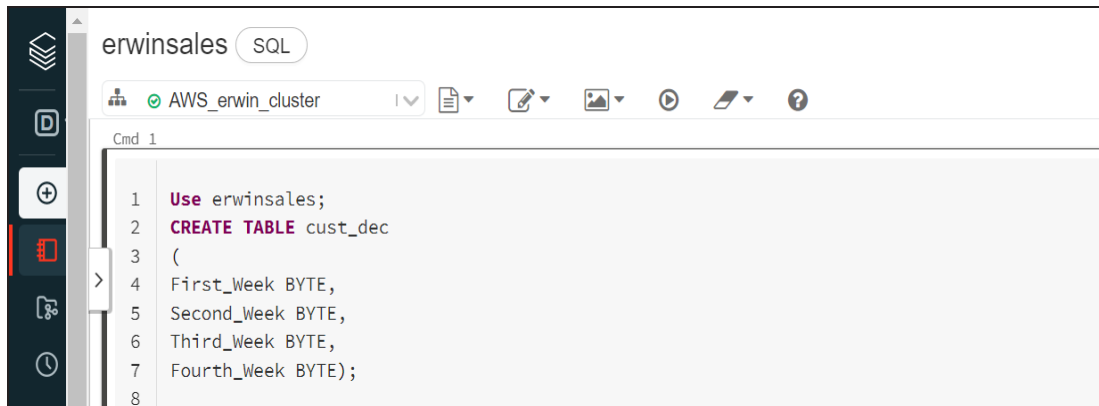
Databricks-Sales-Data\_2022-02-21\_16-30-04 6.72 KB Edit in Web IDE Replace Delete

```
1 CREATE TABLE cust_dec
2 (
3     First_Week BYTE,
4     Second_Week BYTE,
5     Third_Week BYTE,
6     Fourth_Week BYTE
7 );
8
```

Use the committed FE script to generate a physical schema in your database. To generate schema, copy the FE script from your Git repository and run the script in the database.

For example, in the following Databricks database, the FE script copied from the Git repository is run.

## Committing Forward Engineering Scripts



```
erwinsales SQL
AWS_erwin_cluster
Cmd 1
1 Use erwinsales;
2 CREATE TABLE cust_dec
3 (
4 First_Week BYTE,
5 Second_Week BYTE,
6 Third_Week BYTE,
7 Fourth_Week BYTE);
8
```

The cust\_dec table is created in a Databricks database.

