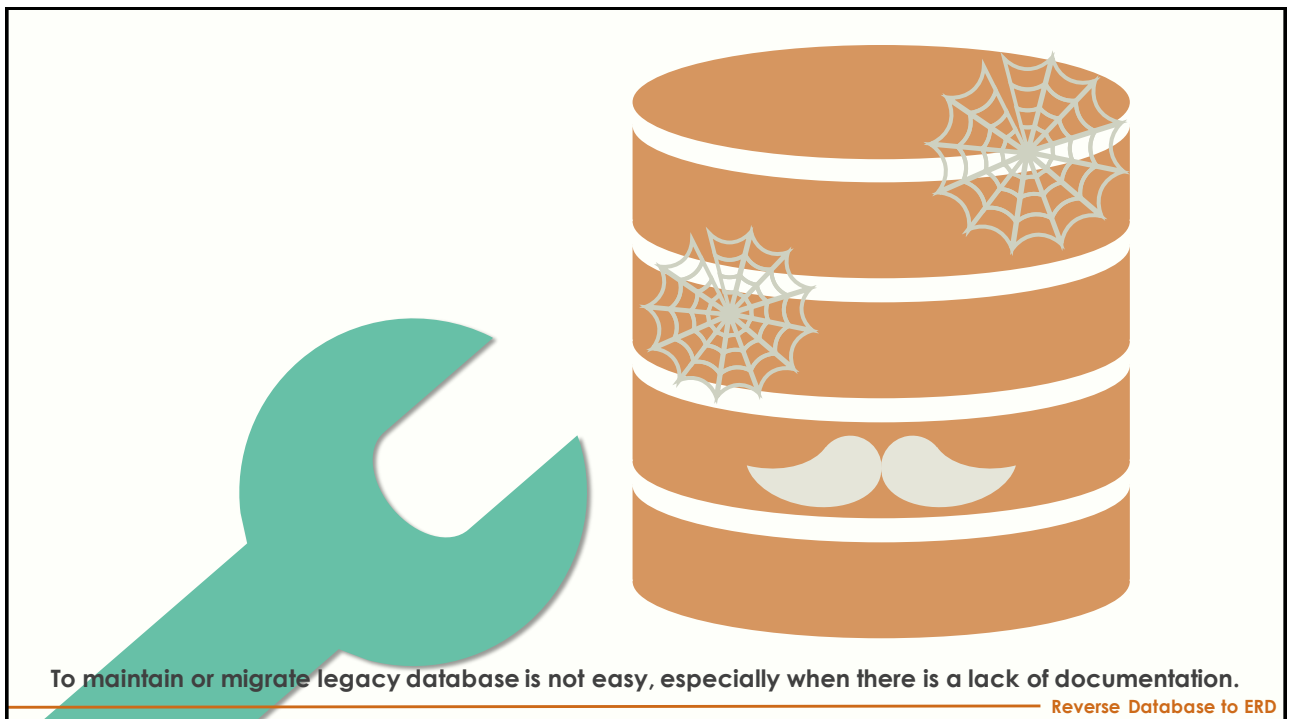
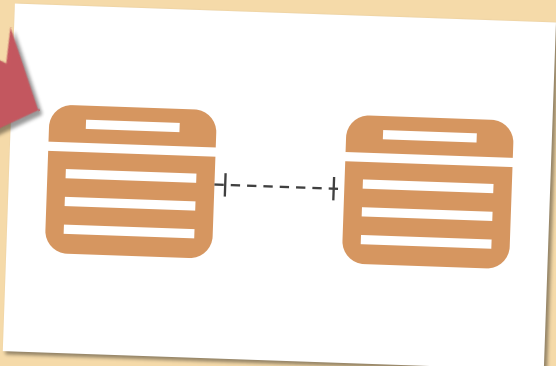




Reverse Database to ERD

Reverse Database to ERD

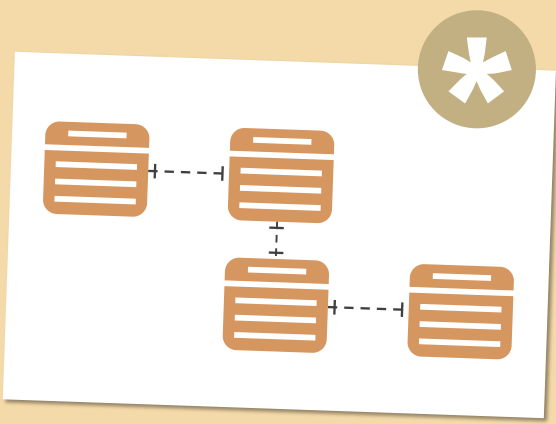



Reverse Database to ERD



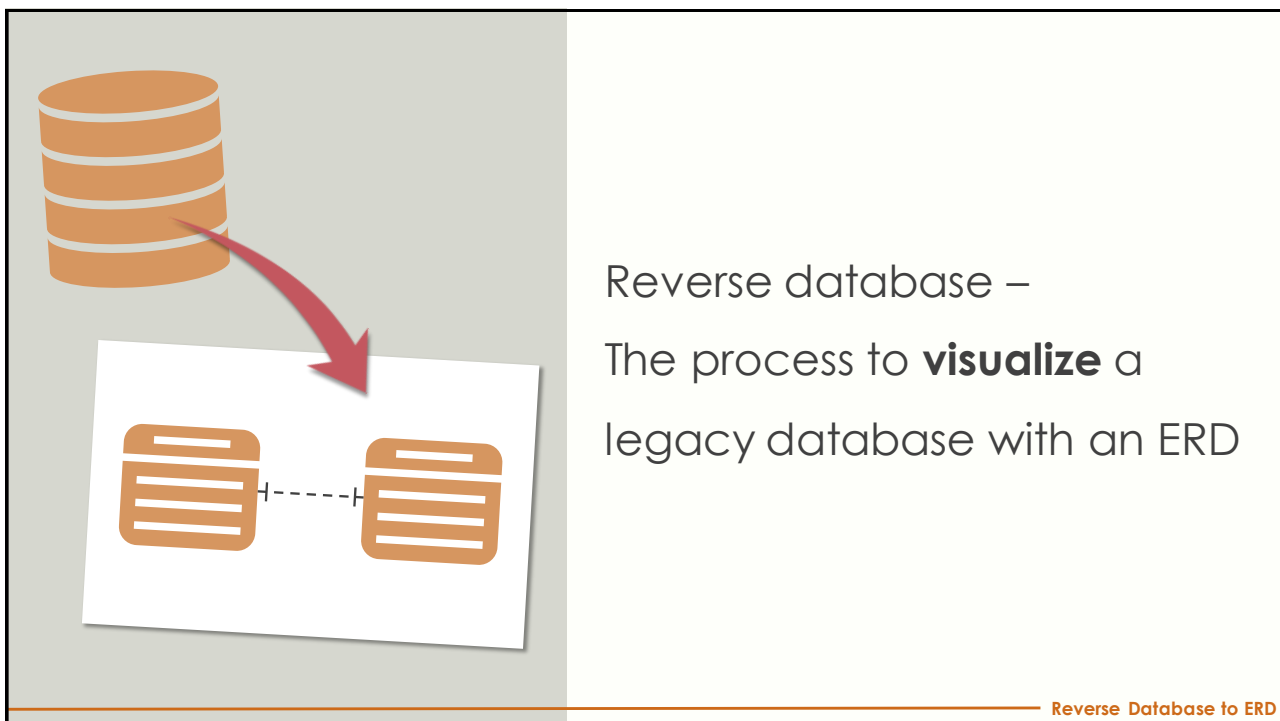
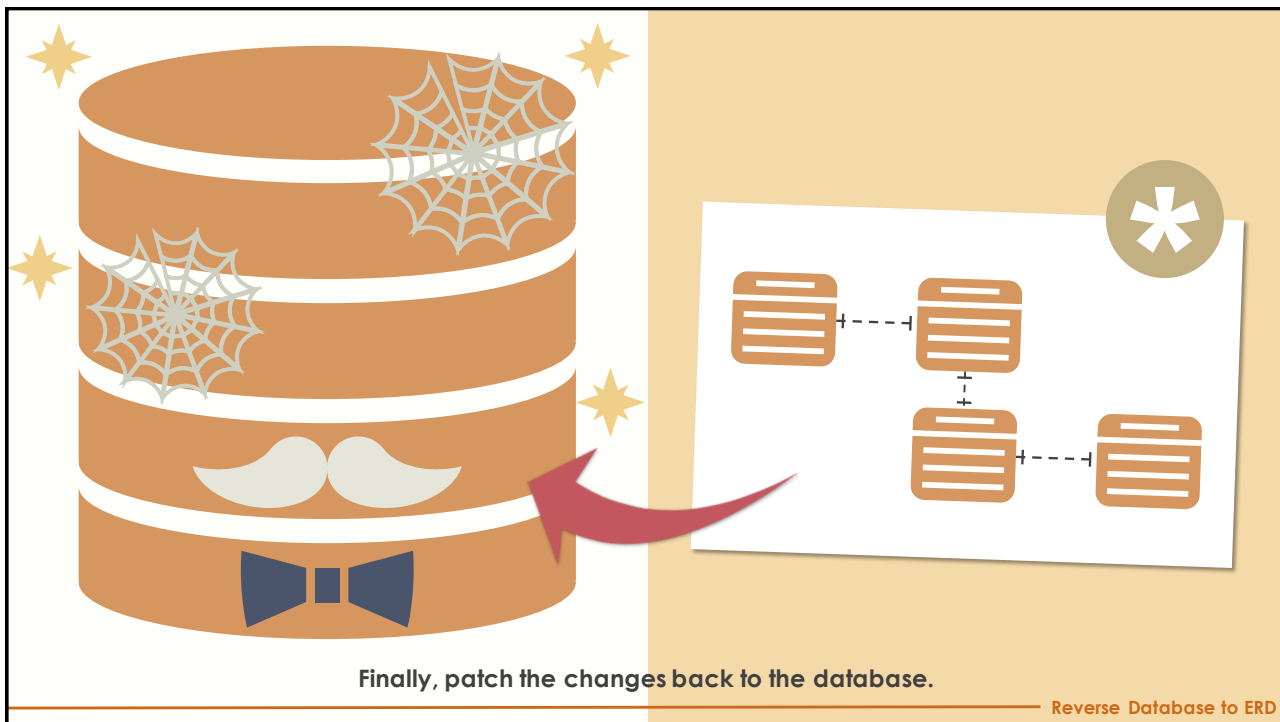
To ease the process, you can visualize the database with an ERD first.

Reverse Database to ERD



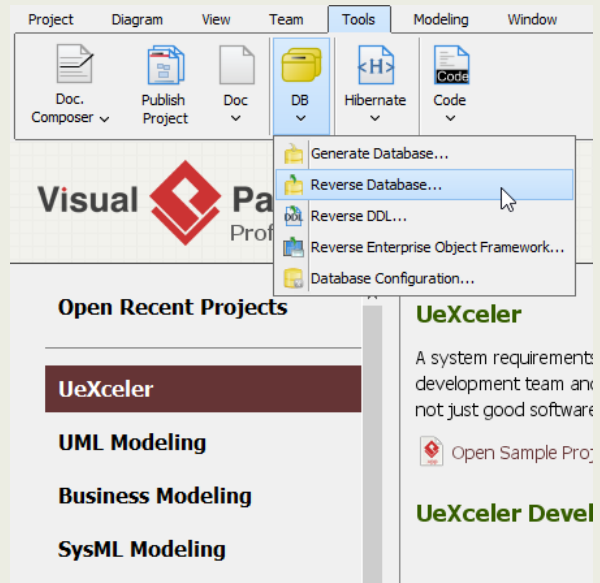
and then modify the design...

Reverse Database to ERD



Reversing Database

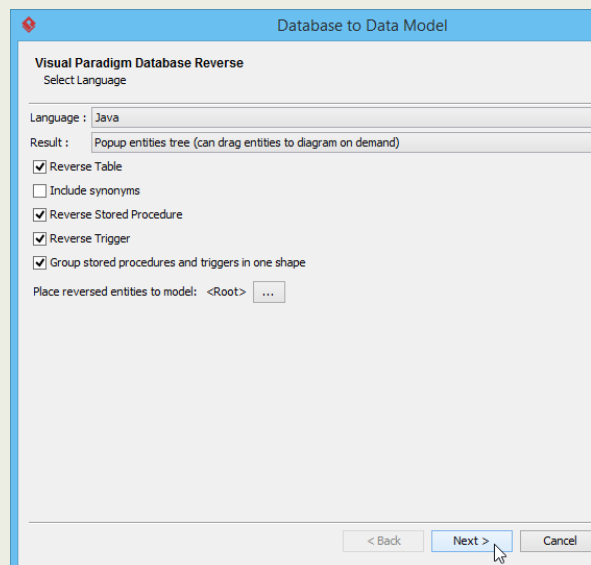
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database...**



Reverse Database to ERD

Reversing Database

1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database...**
2. Click **Next** in the popup window.



Reverse Database to ERD

Reversing Database

1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database ...**
2. Click **Next** in the popup window.
3. Configure the database connection.

Database to Data Model

Visual Paradigm Database Reverse
Database Configuration

Driver : MySQL5 (Connector/J Driver)
Driver file : <MySQL Connector/J 5.1.33>
Connection URL : jdbc:mysql://127.0.0.1/online_photo_album

Hostname : 127.0.0.1
Database name : online_photo_album
User : root Password :
Engine : ☒ Default ☐ InnoDB (with constraint) ☐ MyISAM
☒ Set as default

< Back Next > Cancel

Reverse Database to ERD

Reversing Database

1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database ...**
2. Click **Next** in the popup window.
3. Configure the database connection.
4. Click **Next**.

Database to Data Model

Visual Paradigm Database Reverse
Database Configuration

Driver : MySQL5 (Connector/J Driver)
Driver file : <MySQL Connector/J 5.1.33>
Connection URL : jdbc:mysql://127.0.0.1/online_photo_album

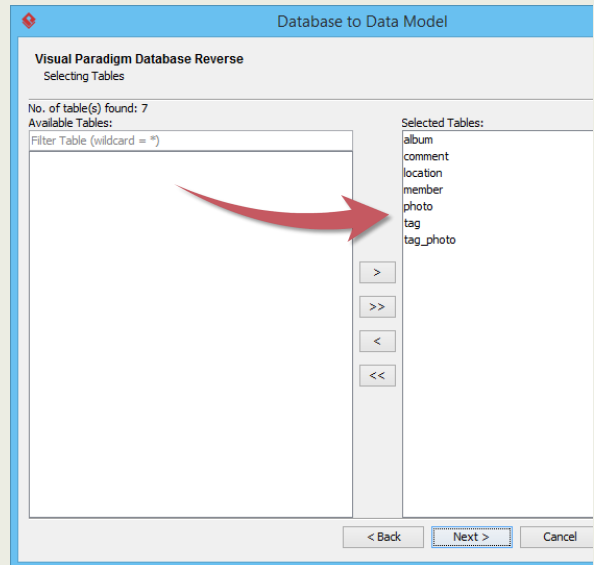
Hostname : 127.0.0.1
Database name : online_photo_album
User : root Password :
Engine : ☒ Default ☐ InnoDB (with constraint) ☐ MyISAM
☒ Set as default

< Back Next > Cancel

Reverse Database to ERD

Reversing Database

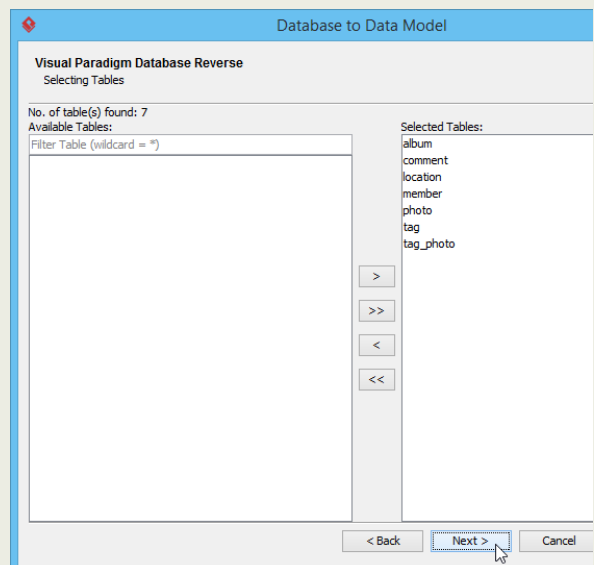
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database ...**
2. Click **Next** in the popup window.
3. Configure the database connection.
4. Click **Next**.
5. Select the tables to be reversed.



Reverse Database to ERD

Reversing Database

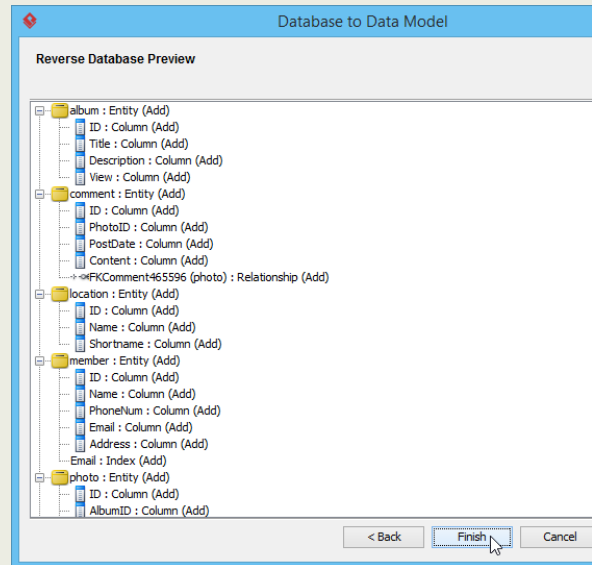
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database ...**
2. Click **Next** in the popup window.
3. Configure the database connection.
4. Click **Next**.
5. Select the tables to be reversed.
6. Click **Next**.



Reverse Database to ERD

Reversing Database

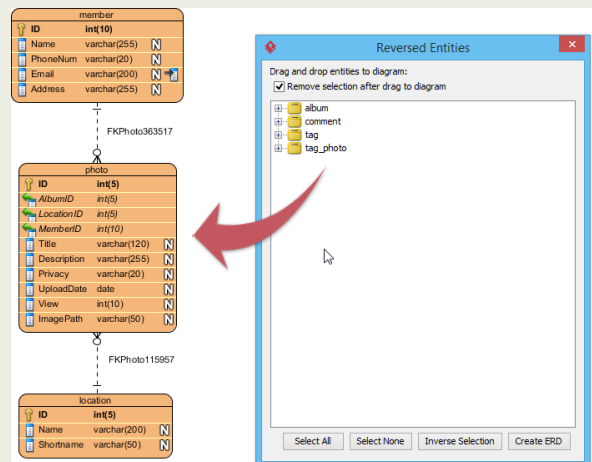
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database ...**
2. Click **Next** in the popup window.
3. Configure the database connection.
4. Click **Next**.
5. Select the tables to be reversed.
6. Click **Next**.
7. Click **Finish** to execute the reversal.



Reverse Database to ERD

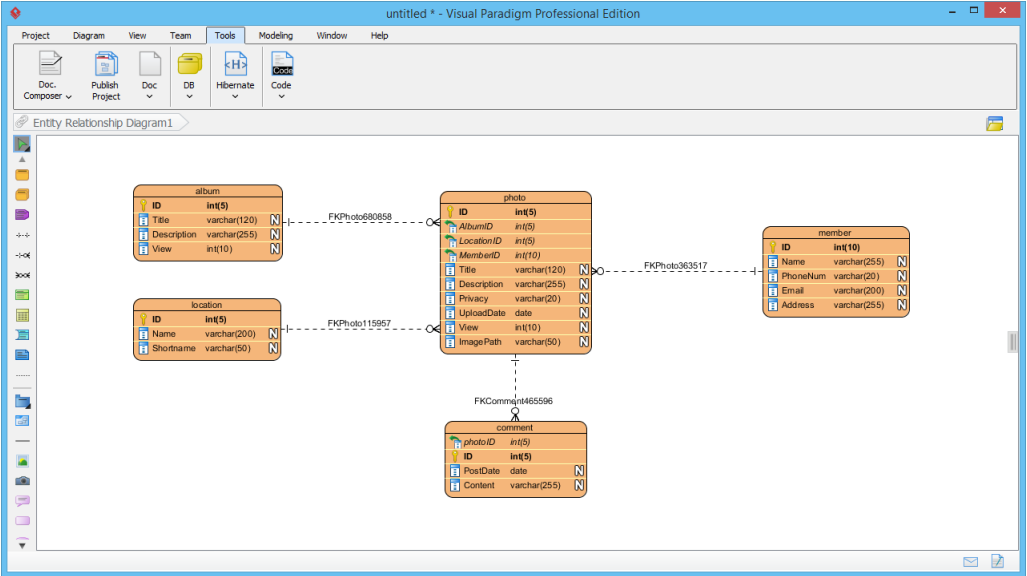
Reversing Database

1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse Database ...**
2. Click **Next** in the popup window.
3. Configure the database connection.
4. Click **Next**.
5. Select the tables to be reversed.
6. Click **Next**.
7. Click **Finish** to execute the reversal.
8. Form ERD with the reversed entities.



Reverse Database to ERD

Reversing Database



Reverse Database to ERD

DB Reverse Options

The screenshot shows the 'Database to Data Model' dialog box in Visual Paradigm. The title is 'Database to Data Model'. Inside, there's a section 'Visual Paradigm Database Reverse' with 'Select Language' set to 'Java' and 'Result' set to 'Popup entities tree (can drag entities to diagram on demand)'. There are four checked checkboxes: 'Reverse Table', 'Reverse Stored Procedure', 'Reverse Trigger', and 'Group stored procedures and triggers in one shape'. There is an unchecked checkbox 'Include synonyms'. At the bottom, there's a field 'Place reversed entities to model:' with a dropdown menu showing '<Root>'. At the very bottom are buttons for '< Back', 'Next >', 'Cancel', and 'Help'.

Reverse Database

Reverse Database to ERD

DB Reverse Options

Language

Database to Data Model

Visual Paradigm Database Reverse
Select Language

Language : Java

Result : C#

☒ Reverse

☐ Include Enterprise Object Framework

☒ Reverse Stored Procedure

☒ Reverse Trigger

☒ Group stored procedures and triggers in one shape

Place reversed entities to model: <Root> ...

< Back Next >

- Select the method to use to connect to your database.
 - E.g. Java – JDBC driver
 - C# - Adapter file

Reverse Database to ERD

DB Reverse Options

Result

Database to Data Model

Visual Paradigm Database Reverse
Select Language

Language : Java

Result : Popup entities tree (can drag entities to diagram on demand)

☒ Reverse

☐ Include

☒ Reverse Stored Procedure

☒ Reverse Trigger

☒ Group stored procedures and triggers in one shape

Place reversed entities to model: <Root> ...

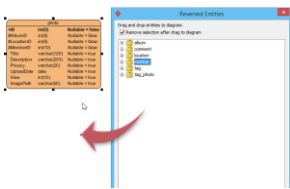
< Back Next >

- Post-action of database reversal.

Reverse Database to ERD

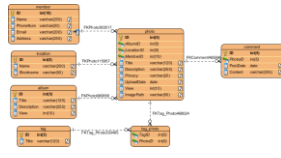
DB Reverse Options ■ Result

Popup entities tree



Form ERD(s) manually by **dragging and dropping** entities onto diagram.

Form a new diagram with the reversed entities



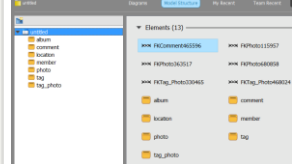
Automatically **create** an ERD and place all the reversed entities onto it.

Add reversed entities to ERD



Automatically place all the reversed entities onto the **first ERD** in your project.

Do not form diagram with the reversed entities



Just reverse database tables as entities without visualizing them with any ERD.

Reverse Database to ERD

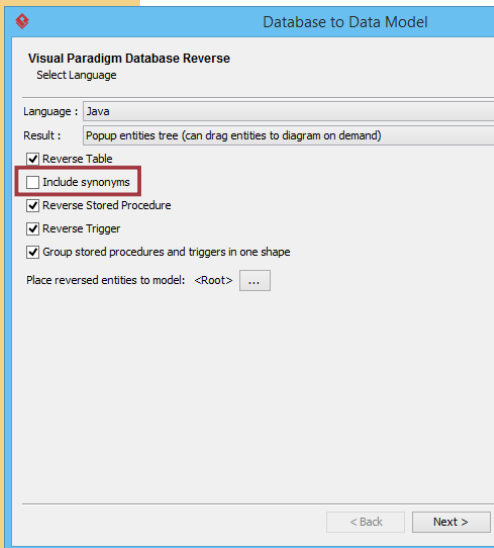
DB Reverse Options ■ Reverse Table

- Check to reverse database tables as entities.
- Uncheck if you want to ignore any database table in reversal.

Reverse Database to ERD

DB Reverse Options

Include synonyms



Database to Data Model

Visual Paradigm Database Reverse
Select Language

Language : Java

Result : Popup entities tree (can drag entities to diagram on demand)

☒ Reverse Table

☐ Include synonyms

☒ Reverse Stored Procedure

☒ Reverse Trigger

☒ Group stored procedures and triggers in one shape

Place reversed entities to model: <Root> ...

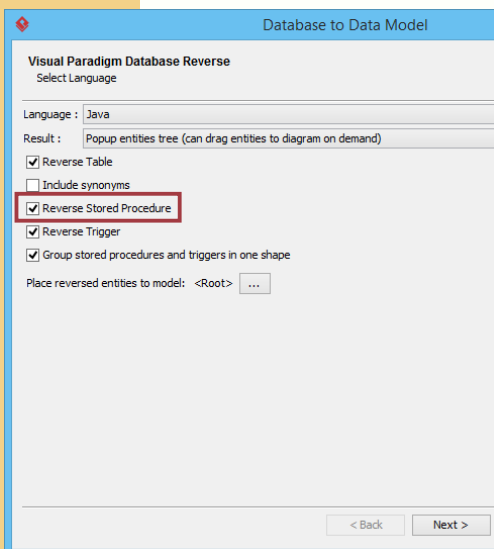
< Back Next >

- Synonym is an alternative name for objects such as tables, view, etc.
- For Oracle DB only.
- Check it to reverse synonyms as entities.

Reverse Database to ERD

DB Reverse Options

Reverse Stored Procedure



Database to Data Model

Visual Paradigm Database Reverse
Select Language

Language : Java

Result : Popup entities tree (can drag entities to diagram on demand)

☒ Reverse Table

☐ Include synonyms

☒ Reverse Stored Procedure

☒ Reverse Trigger

☒ Group stored procedures and triggers in one shape

Place reversed entities to model: <Root> ...

< Back Next >

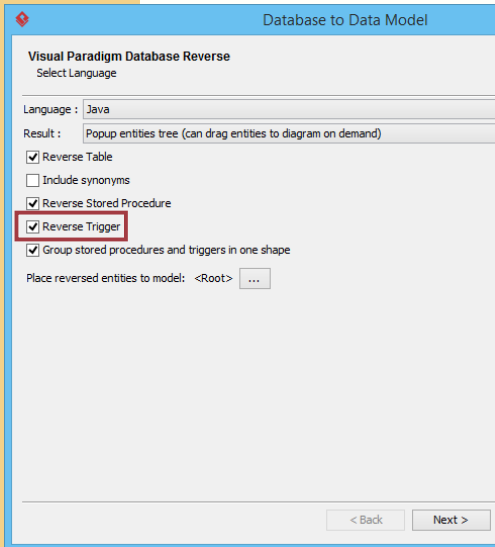
- Check to reverse stored procedure.
- Uncheck if you want to skip any stored procedure in reversal.

* Check out **lecture 8** for more details about stored procedure.

Reverse Database to ERD

DB Reverse Options

Reverse Trigger



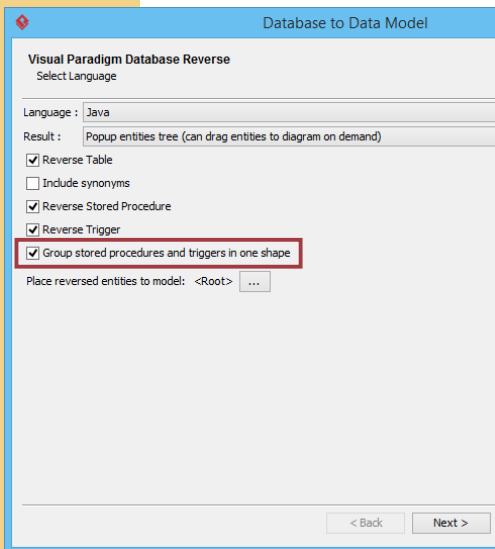
- Check to reverse database trigger.
- Uncheck if you want to skip any database trigger in reversal.

* Check out **lecture 8** for more details about database trigger.

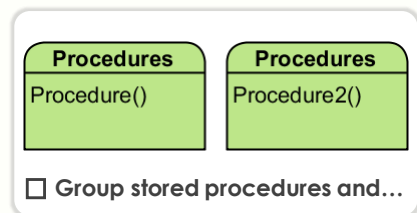
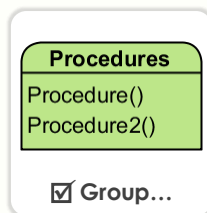
Reverse Database to ERD

DB Reverse Options

Group stored procedures and triggers in one shape



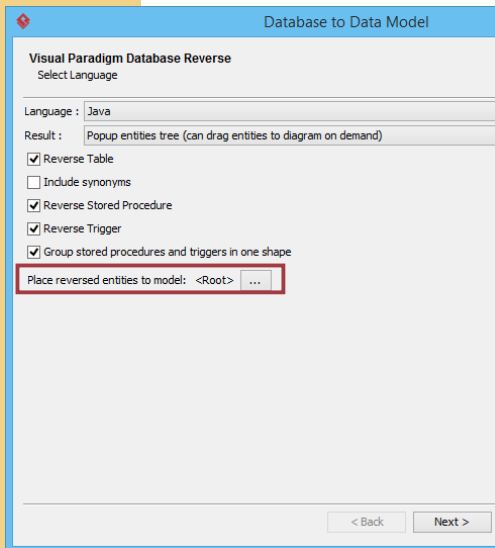
- Check to create **one** stored procedures shape and one triggers shape to hold all the reversed procedures and triggers.
- Uncheck to create **separate** shapes per each of the stored procedures and triggers.



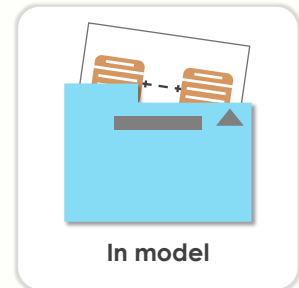
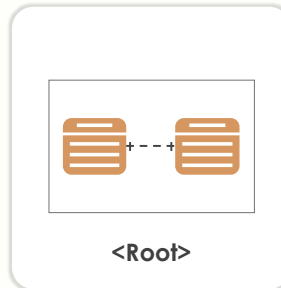
Reverse Database to ERD

DB Reverse Options

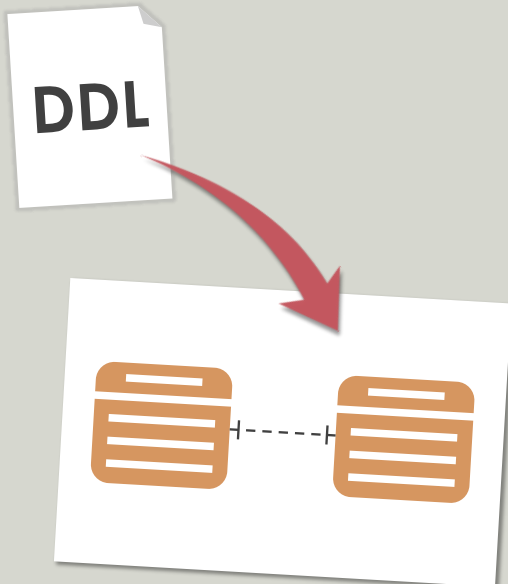
Place reverse entities to model



- Leave the reversed entities and ERD at root, or place them in a specialized model.



Reverse Database to ERD



Reverse DDL –

The process to visualize

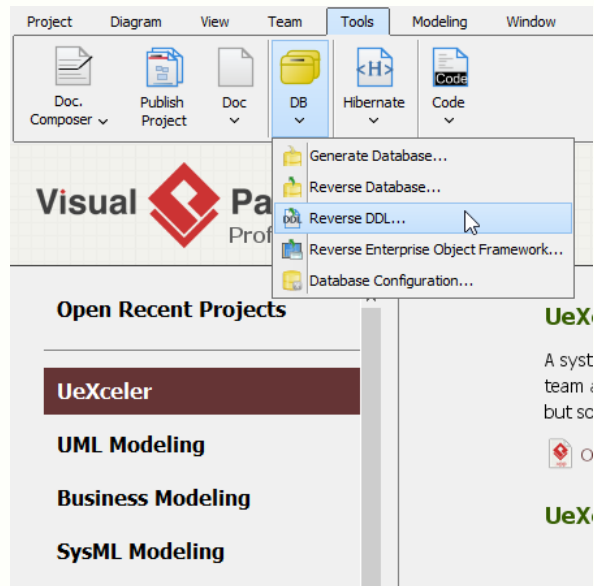
database create script (SQL)

with an ERD

Reverse Database to ERD

Reversing DDL

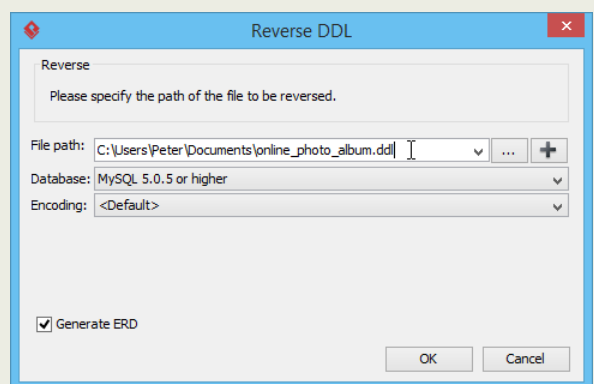
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse DDL...**



Reverse Database to ERD

Reversing DDL

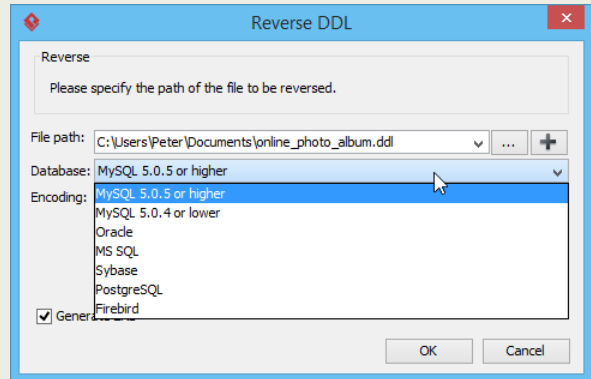
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse DDL...**
2. In the **Reverse DDL** window, enter the file path of the DDL file to be reversed.



Reverse Database to ERD

Reversing DDL

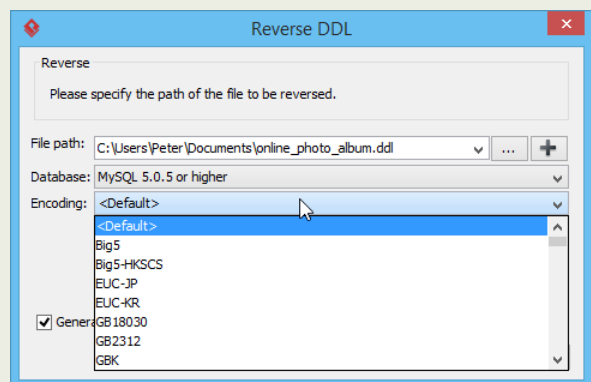
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse DDL...**
2. In the **Reverse DDL** window, enter the file path of the DDL file to be reversed.
3. Choose the **Database**. Make sure the correct DBMS is selected. A wrong selection will result in a failure in reversal.



Reverse Database to ERD

Reversing DDL

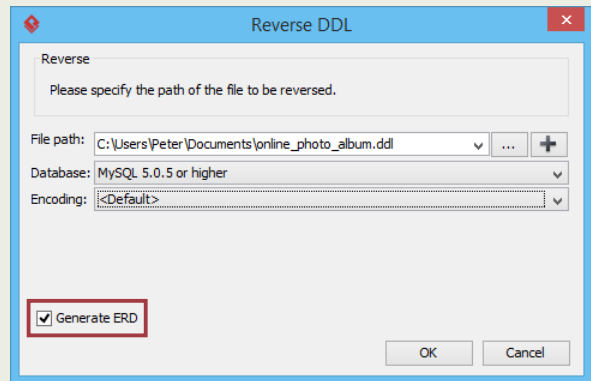
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse DDL...**
2. In the **Reverse DDL** window, enter the file path of the DDL file to be reversed.
3. Choose the **Database**. Make sure the correct DBMS is selected. A wrong selection will result in a failure in reversal.
4. Select the **Encoding** of the DDL file.



Reverse Database to ERD

Reversing DDL

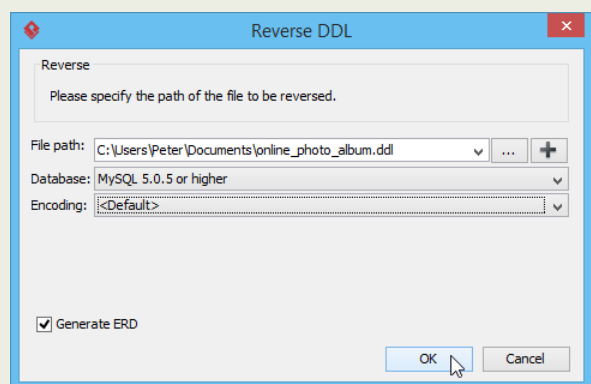
1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse DDL...**
2. In the **Reverse DDL** window, enter the file path of the DDL file to be reversed.
3. Choose the **Database**. Make sure the correct DBMS is selected. A wrong selection will result in a failure in reversal.
4. Select the **Encoding** of the DDL file.
5. Keep **Generate ERD** checked.



Reverse Database to ERD

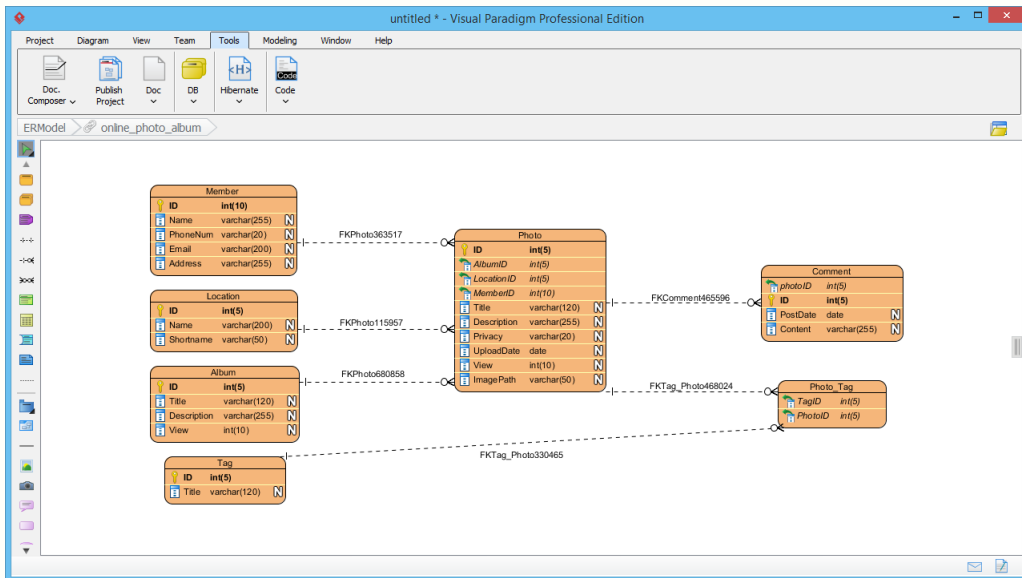
Reversing DDL

1. Under the **Tools** tab of Visual Paradigm, select **DB > Reverse DDL...**
2. In the **Reverse DDL** window, enter the file path of the DDL file to be reversed.
3. Choose the **Database**. Make sure the correct DBMS is selected. A wrong selection will result in a failure in reversal.
4. Select the **Encoding** of the DDL file.
5. Keep **Generate ERD** checked.
6. Click **OK** to execute the reversal.



Reverse Database to ERD

Reversing DDL



Reverse Database to ERD

Summary

- How to reverse database to ERD
- Description of DB Reverse options
- How to reverse DDL to ERD

Reverse Database to ERD