
Synchronizing object model and data model

Visual Paradigm supports [mapping object model \(class diagram\) with data model \(Entity Relationship Diagram\)](#). Such mapping enables the production of programming source code from object model, which can be used in developing applications that require accessing database.

In order for the application to work properly, it is important that the object model and data model are conformed with each other. In Visual Paradigm, you can make them conformed by synchronizing them manually.

Synchronize object model to data model

To synchronize object model to data model, perform the steps below.

1. Select **Tools > Hibernate > Synchronize to Entity Relationship Diagram** from the toolbar.
2. One class diagram maps with one ERD. If any of your class diagram has not been mapped with an ERD, you will be prompted to select the ERD to map with. Upon finishing, entities will be visualized in the ERD selected, following the corresponding class diagram. You can select an existing ERD from the drop down menu, or enter a new diagram name to create a new ERD.
3. Click **OK**.
4. This shows the Synchronize to Entity Relationship Diagram. There are primarily four actions you can/have to do in this window, as described in the table below.

No.	Name	Description
1	Target Parent	<p>Click on the drop down menu to specify the placement of entities to be created, if any.</p> <p>Root - Place the new entities directly under project root.</p> <p>Same as source model element - Place the new entities to the same parents as the corresponding classes.</p> <p>Specify - Choose a model to place the entities yourself.</p>
2	Select Primary Key	<p>Select primary keys for entities without primary keys specified yet. You can choose a column of an entity as its primary key, or</p>

No.	Name	Description	
3		Object-and-Relational Mapping	select Auto Generate to let Visual Paradigm generate a new primary key column for you, namely <i>ID</i> , or select Do Not Generate to leave the entity without primary.