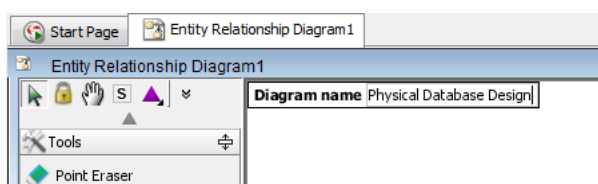




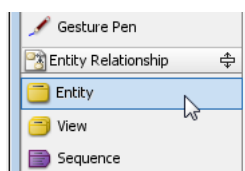
Oracle Database Design with Entity Relationship Diagram

Written Date : September 1, 2009

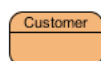
1. In Visual Paradigm, create a new project by selecting **File > New Project** from the main menu. Name the project *ComputerSales*.
2. Create an ERD by selecting **File > New Diagram > Database Modeling > Entity Relationship Diagram** from the main menu.
3. Enter *Physical Database Design* as the name of the diagram.



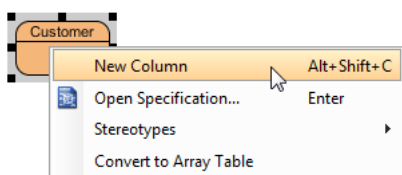
4. Select **Entity** from the toolbar to create an entity.



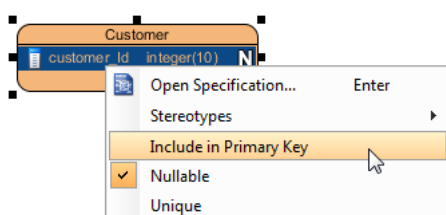
5. Drag to the diagram to create an entity. Enter *Customer* as the name of the entity.



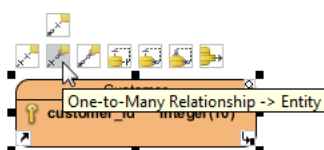
- To add a column to the entity, right-click on the entity and select **New Column** from the pop-up menu.



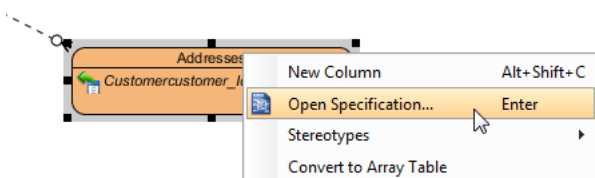
- Enter *customer_id* as the name of the column.
- To specify the column as a primary key, right-click on the column and select **Include in primary key** from the pop-up menu.



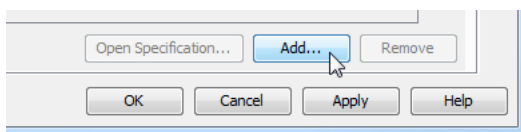
- Move the mouse pointer over the entity, click on the **One-to-Many Relationship -> Entity** relationship icon.



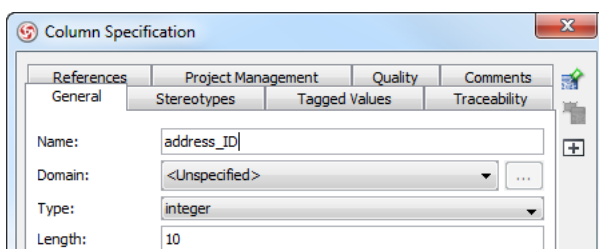
- Drag out to an empty space to create an entity named *Addresses*.
- You can also create a column through the specification dialog. To open the specification dialog, right-click the entity and select **Open Specification...** from the pop-up menu.



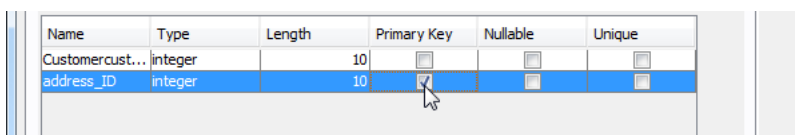
12. Select the **Columns** tab, and click **Add...**



13. Enter the column information and click **OK** to confirm.

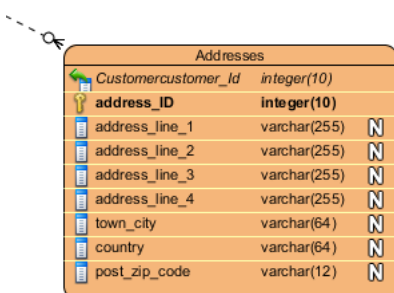


14. You can also specify the column as a primary key by selecting the **Primary Key** property.



15. Click **OK**.

16. The column is added.

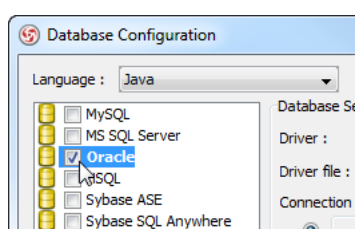


17. Let's repeat the previous steps to complete the ERD.

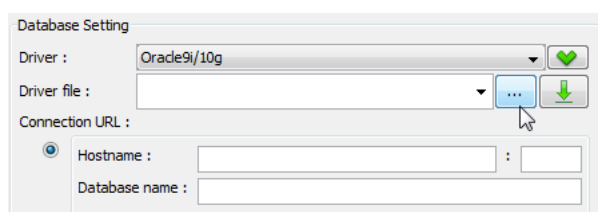


18. Let's configure the database configuration. Select **Tools > Database > Database Configuration...** from the main menu.

19. Select **Oracle** from the database list.



20. Click ... to specify the Oracle JDBC JAR file location.



21. Select the Oracle JDBC driver file.

- Fill in the information of the database to reverse, and click **Test Connection** to verify the connection. Click **Next**.

- Now it's time to generate the database. Select **Tools > Database > Generate Database...** from the main menu.
- In the **Database Code Generation** dialog box, customize the database generation.
- By default, **Export to database** is unchecked. Check it to export the entities to the database.

- Press **OK** to start the generate process.
- Let's check with the Oracle Web Object Browser to verify the generation.

Column Name	Data Type	Nullable	Default	Primary Key
COMPUTER_ID	NUMBER(10,0)	No	-	1
REGISTRATION_DATE	TIMESTAMP(6)	Yes	-	-
TITLE	VARCHAR2(255)	Yes	-	-
PRICE	NUMBER(8,2)	Yes	-	-
DESCRIPTION	VARCHAR2(1024)	Yes	-	-
REMARK	VARCHAR2(255)	Yes	-	-
CATEGORY_ID	NUMBER(10,0)	No	-	-
MODEL	VARCHAR2(64)	Yes	-	-

Related Links

- [What is Entity Relationship Diagram \(ERD\)?](#)
- [Evaluate Visual Paradigm for FREE](#)

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