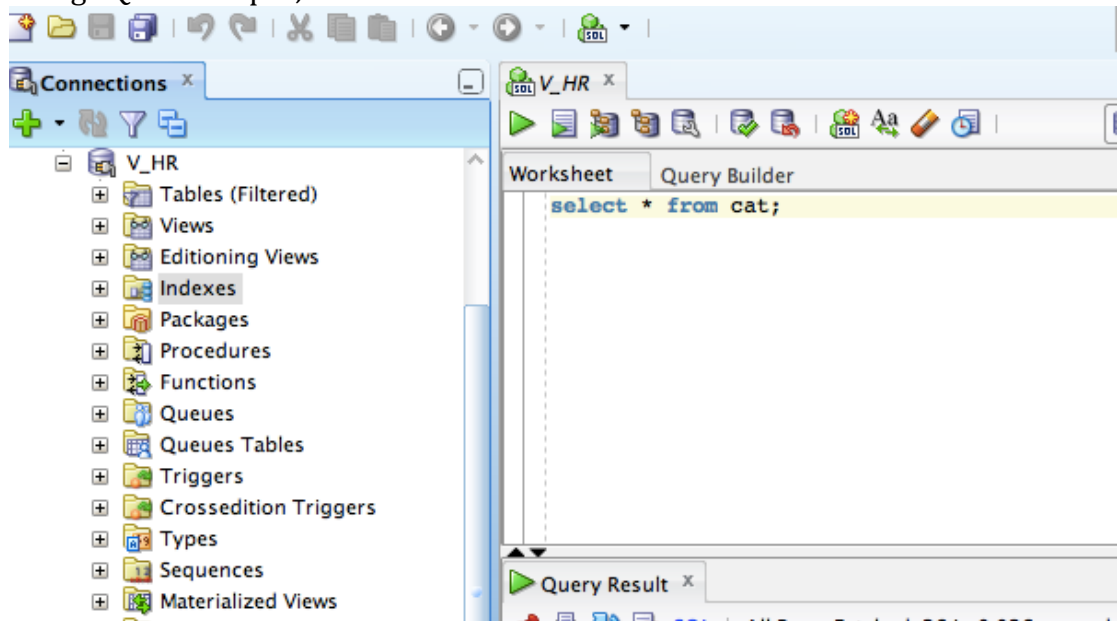
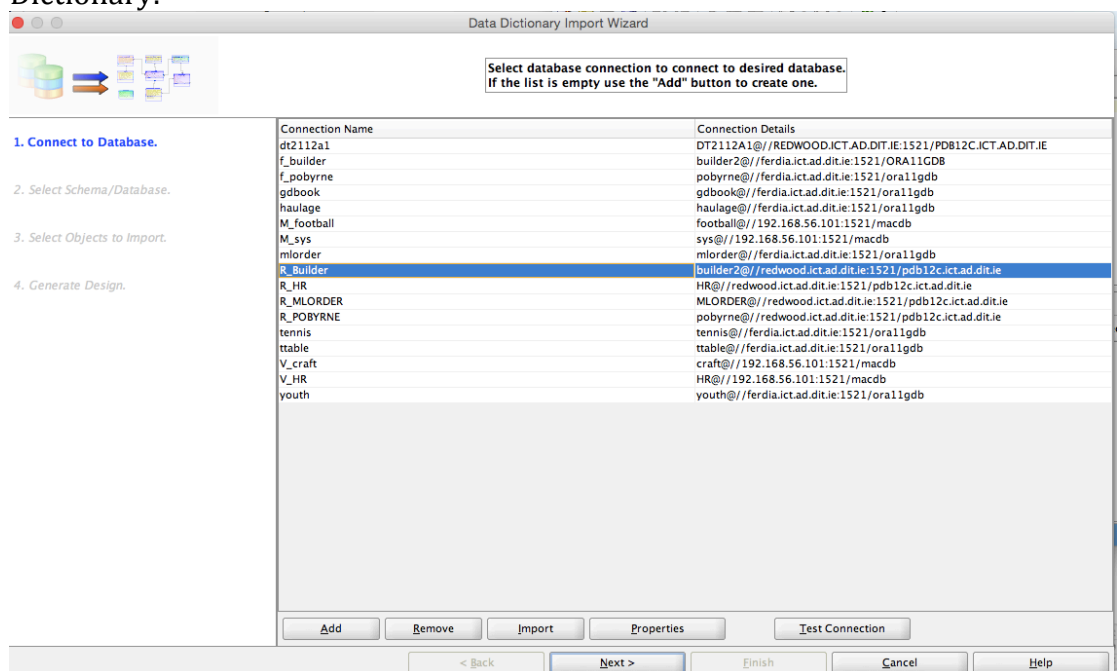


Designing a system with Data Modeler

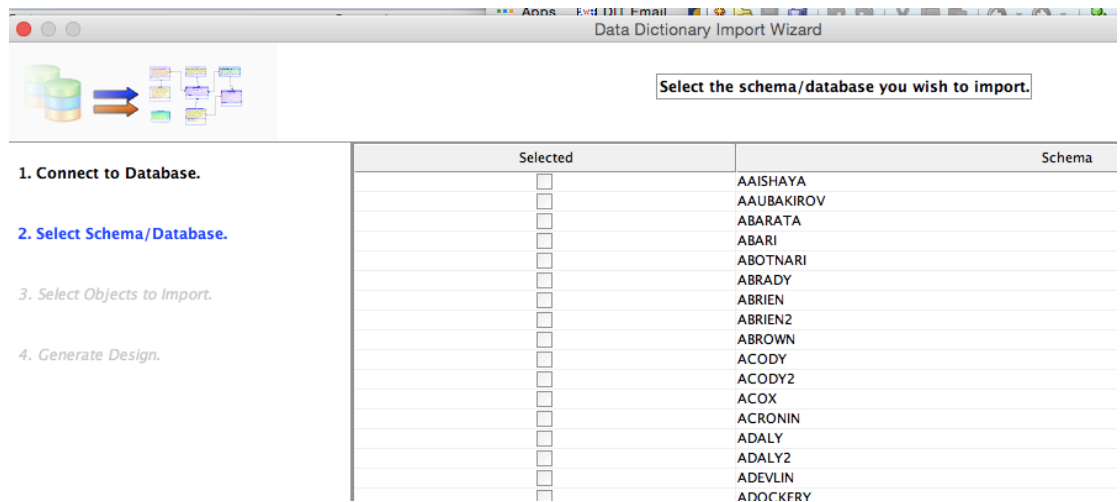
1. Start with an empty schema!
2. Using SQL Developer, connect to the schema



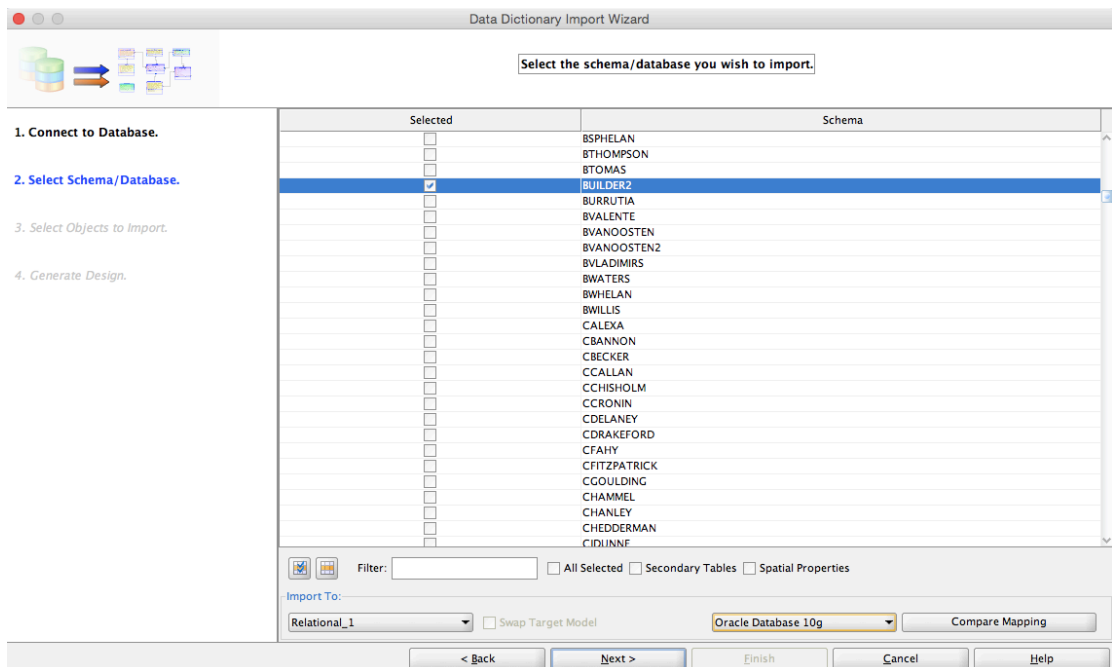
3. From the top menu bar, choose File > Data Modeler > Import > Data Dictionary.



4. Pick the schema you want to model and click Next

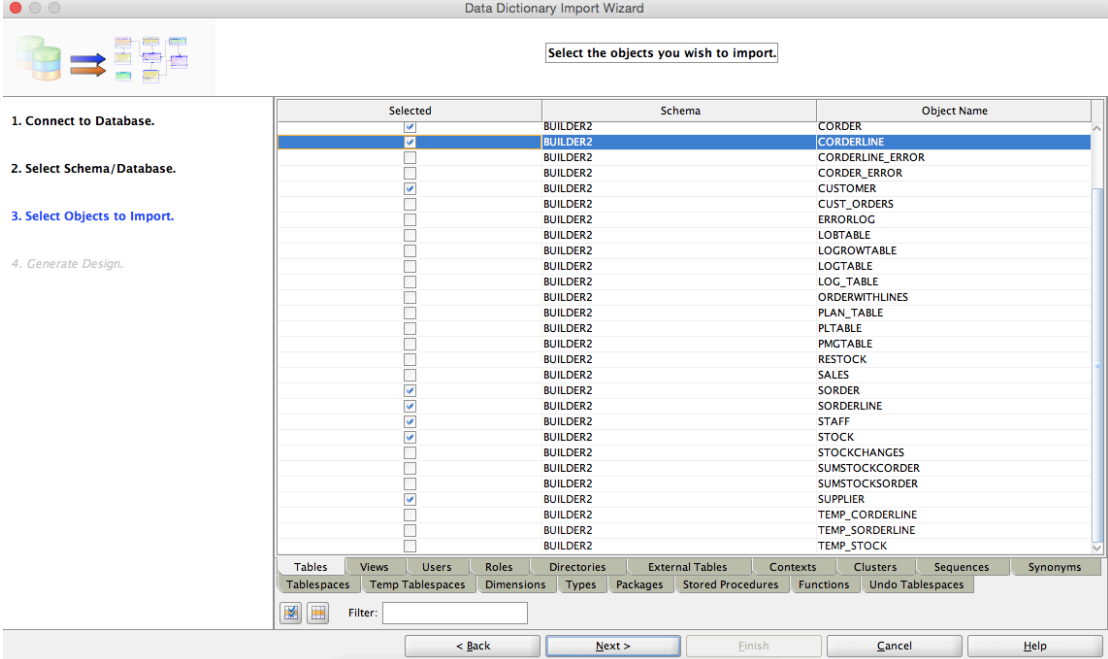


Scroll down to the schema you want to model and tick the box.



Click Next.

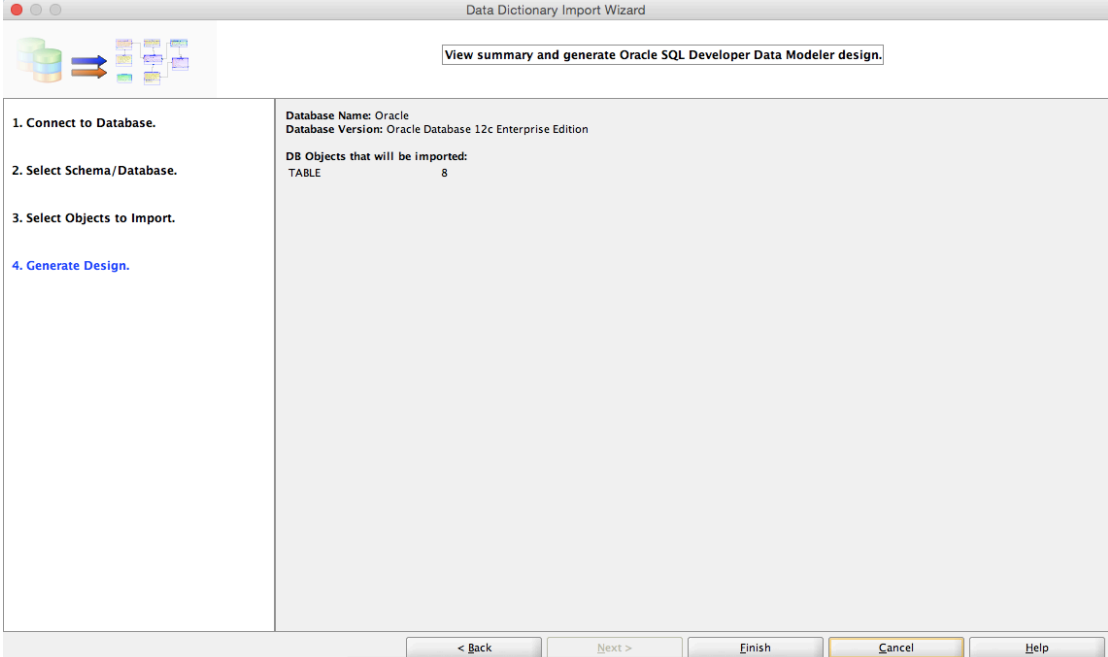
5. Select the objects you want to Import (i.e. tick the tables you want to model).



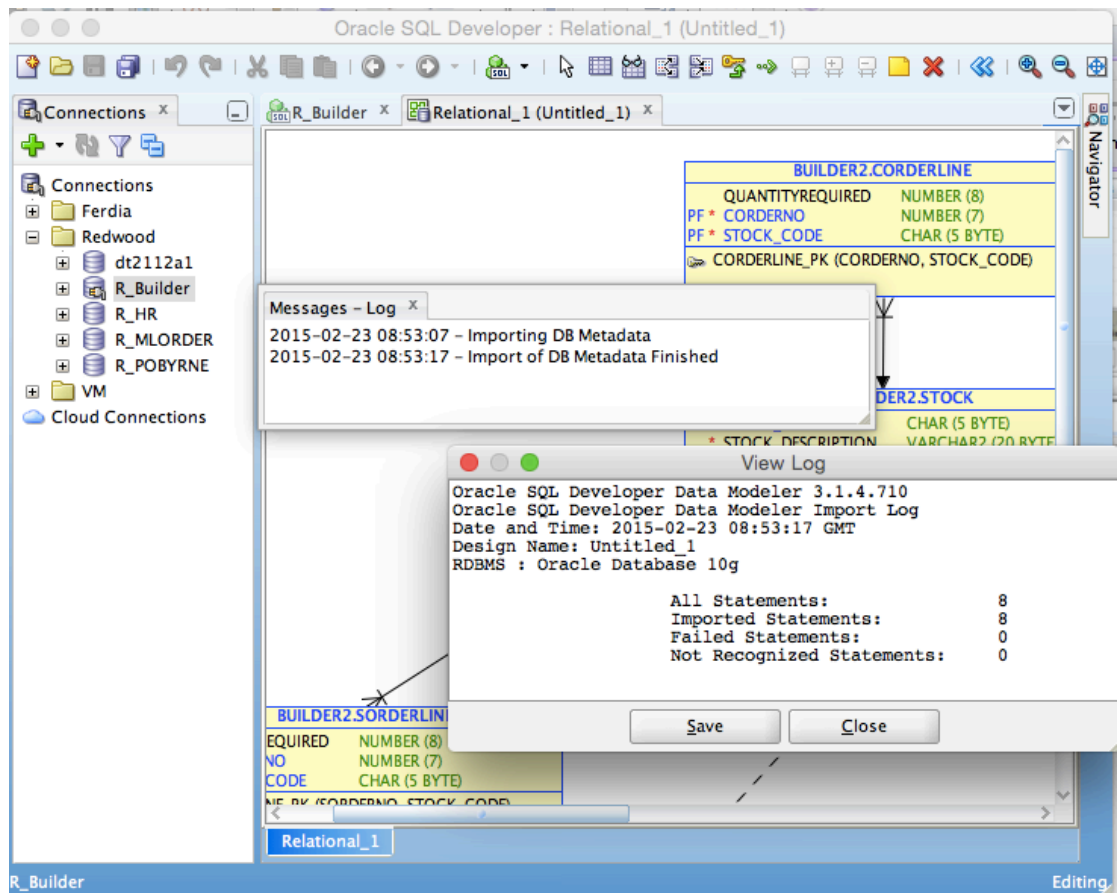
The screenshot shows the 'Data Dictionary Import Wizard' window, specifically the 'Select the objects you wish to import.' step. The window has a sidebar on the left with four steps: 1. Connect to Database., 2. Select Schema/Database., 3. Select Objects to Import. (highlighted in blue), and 4. Generate Design. The main area is a table with columns: Selected (checkbox), Schema, and Object Name. The table lists various objects from the 'BUILDER2' schema, including CORDER, CORDERLINE, CORDERLINE_ERROR, CORDER_ERROR, CUSTOMER, CUST_ORDERS, ERRORLOG, LOBTABLE, LOGROWTABLE, LOGTABLE, LOG_TABLE, ORDERWITHLINES, PLAN_TABLE, PLTABLE, PMGTABLE, RESTOCK, SALES, SORDER, SORDERLINE, STAFF, STOCK, STOCKCHANGES, SUMSTOCKCORDER, SUMSTOCKSORDER, SUPPLIER, TEMP_CORDERLINE, TEMP_SORDERLINE, and TEMP_STOCK. The 'CORDERLINE' row is selected. Below the table are tabs for Tables, Views, Users, Roles, Directories, External Tables, Contexts, Clusters, Sequences, and Synonyms. A 'Filter:' text box is present. At the bottom are buttons: < Back, Next >, Finish, Cancel, and Help.

Selected	Schema	Object Name
<input checked="" type="checkbox"/>	BUILDER2	CORDER
<input checked="" type="checkbox"/>	BUILDER2	CORDERLINE
<input type="checkbox"/>	BUILDER2	CORDERLINE_ERROR
<input type="checkbox"/>	BUILDER2	CORDER_ERROR
<input checked="" type="checkbox"/>	BUILDER2	CUSTOMER
<input type="checkbox"/>	BUILDER2	CUST_ORDERS
<input type="checkbox"/>	BUILDER2	ERRORLOG
<input type="checkbox"/>	BUILDER2	LOBTABLE
<input type="checkbox"/>	BUILDER2	LOGROWTABLE
<input type="checkbox"/>	BUILDER2	LOGTABLE
<input type="checkbox"/>	BUILDER2	LOG_TABLE
<input type="checkbox"/>	BUILDER2	ORDERWITHLINES
<input type="checkbox"/>	BUILDER2	PLAN_TABLE
<input type="checkbox"/>	BUILDER2	PLTABLE
<input type="checkbox"/>	BUILDER2	PMGTABLE
<input type="checkbox"/>	BUILDER2	RESTOCK
<input type="checkbox"/>	BUILDER2	SALES
<input checked="" type="checkbox"/>	BUILDER2	SORDER
<input checked="" type="checkbox"/>	BUILDER2	SORDERLINE
<input checked="" type="checkbox"/>	BUILDER2	STAFF
<input checked="" type="checkbox"/>	BUILDER2	STOCK
<input type="checkbox"/>	BUILDER2	STOCKCHANGES
<input type="checkbox"/>	BUILDER2	SUMSTOCKCORDER
<input type="checkbox"/>	BUILDER2	SUMSTOCKSORDER
<input checked="" type="checkbox"/>	BUILDER2	SUPPLIER
<input type="checkbox"/>	BUILDER2	TEMP_CORDERLINE
<input type="checkbox"/>	BUILDER2	TEMP_SORDERLINE
<input type="checkbox"/>	BUILDER2	TEMP_STOCK

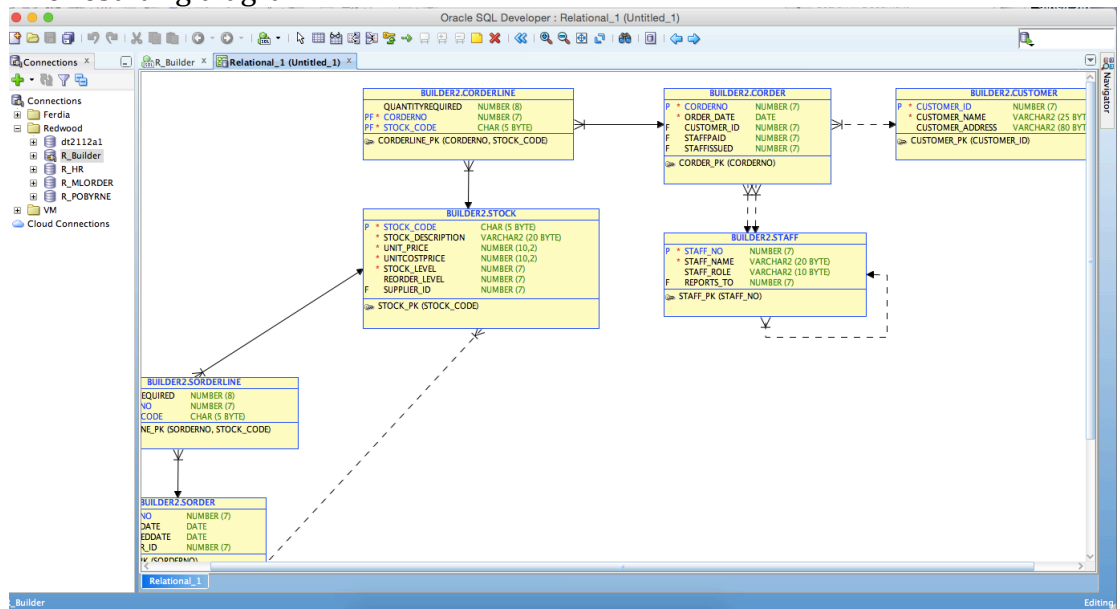
6. Generate the design



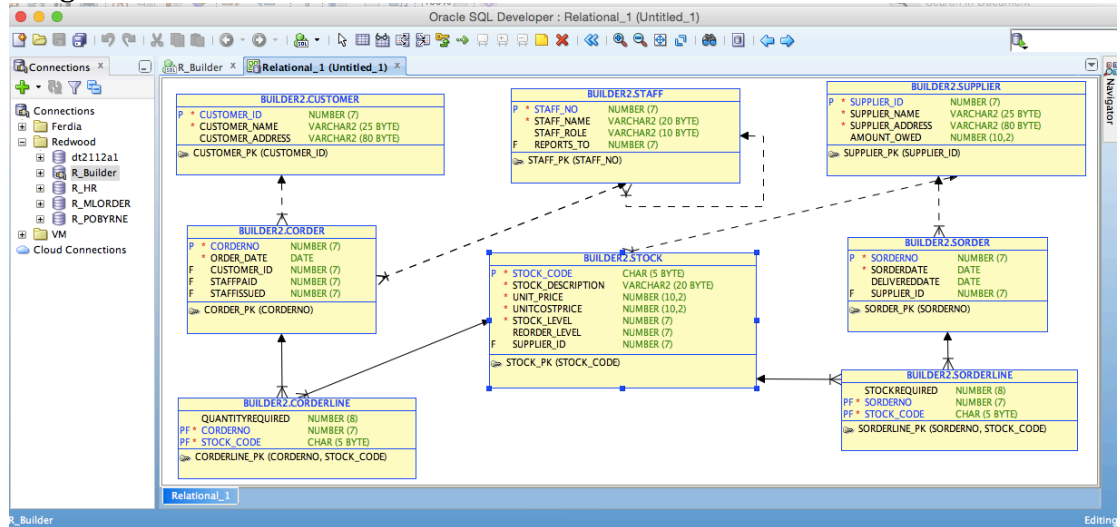
The screenshot shows the 'Data Dictionary Import Wizard' window, specifically the 'Generate Design' step. The window has a sidebar on the left with four steps: 1. Connect to Database., 2. Select Schema/Database., 3. Select Objects to Import., and 4. Generate Design. (highlighted in blue). The main area displays the following information: Database Name: Oracle, Database Version: Oracle Database 12c Enterprise Edition, DB Objects that will be imported: TABLE 8. At the bottom are buttons: < Back, Next >, Finish, Cancel, and Help.



The resulting diagram...

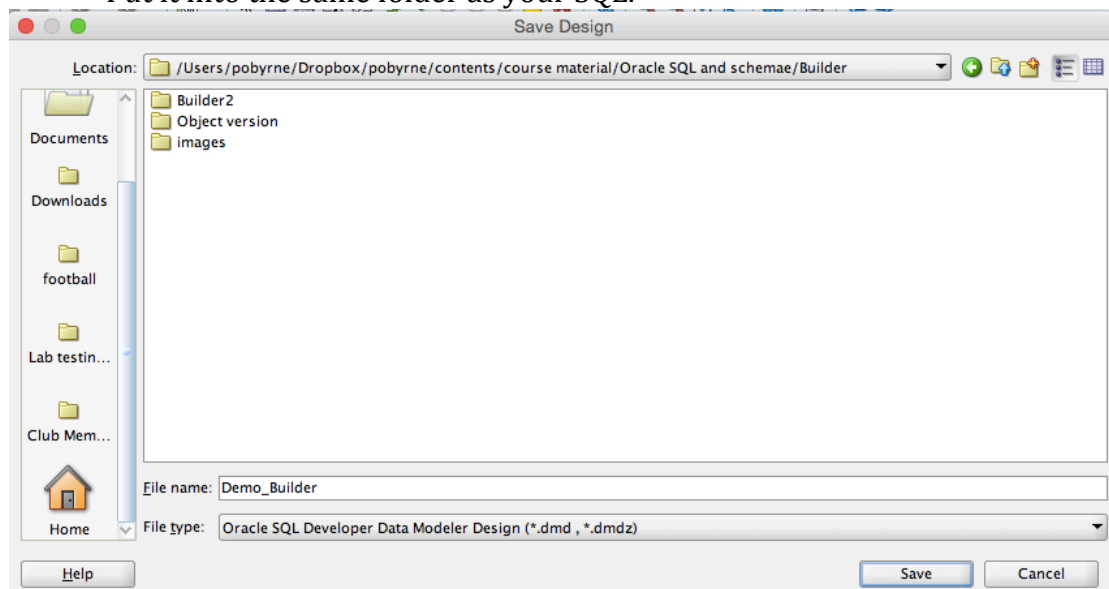


Drag the entities around:

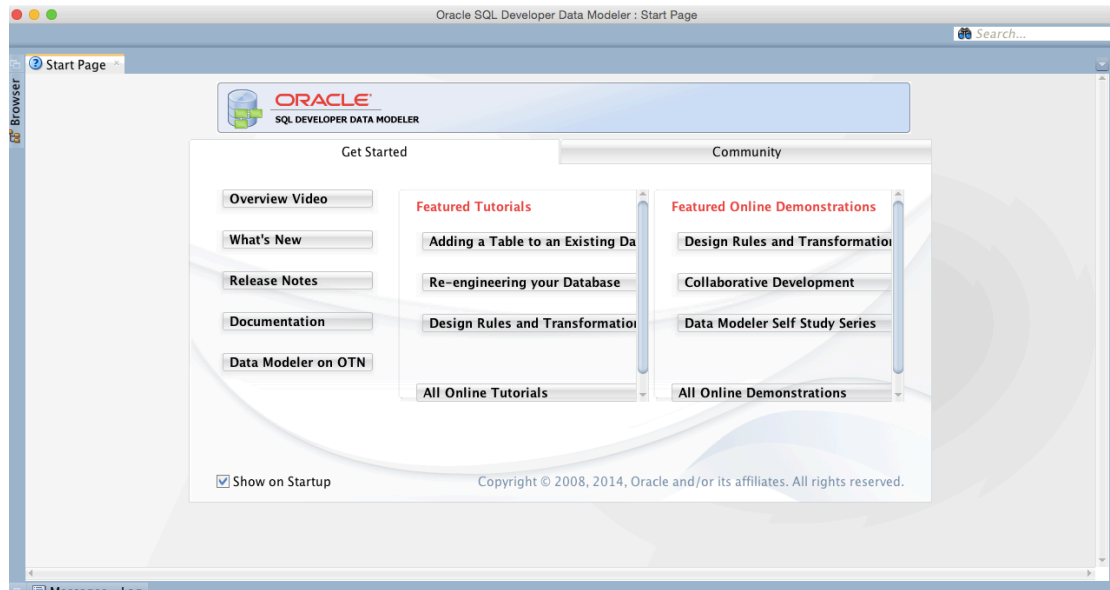


Now save your model – go back to the top menu bar – File > Data Modeler > Save as:

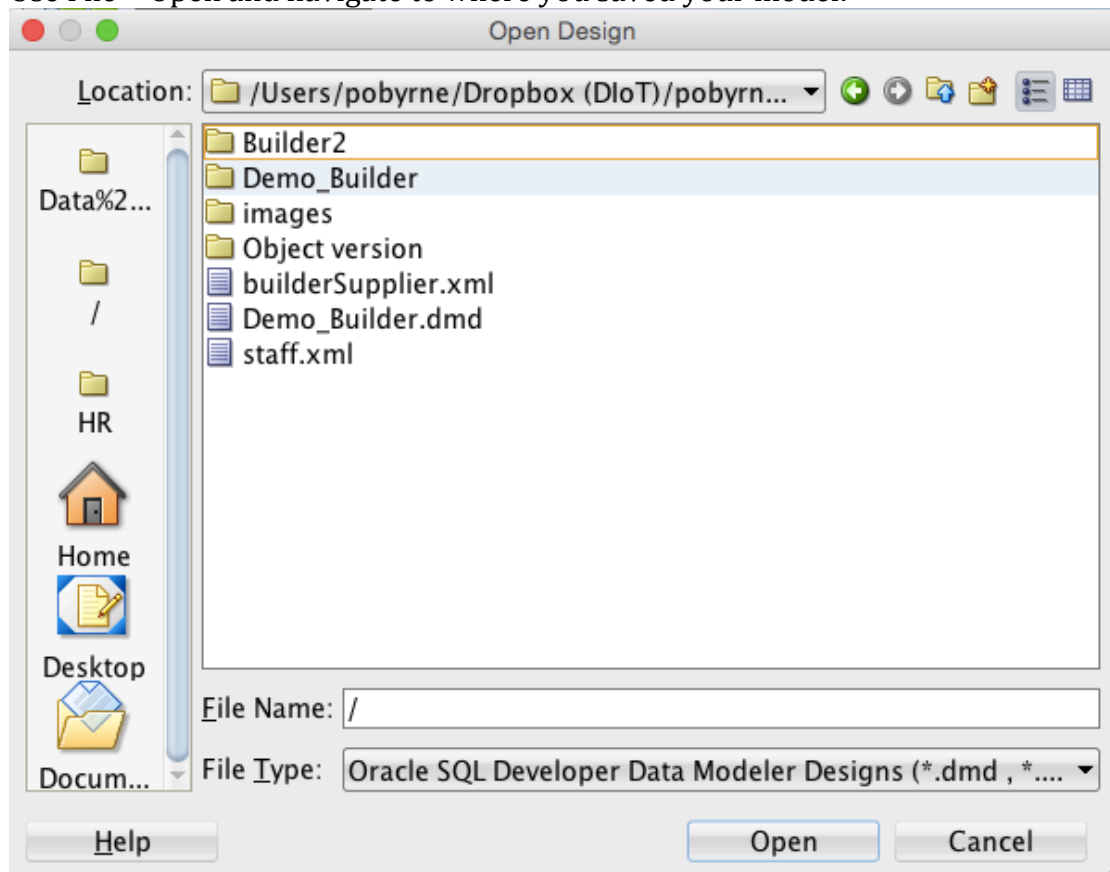
Put it into the same folder as your SQL.



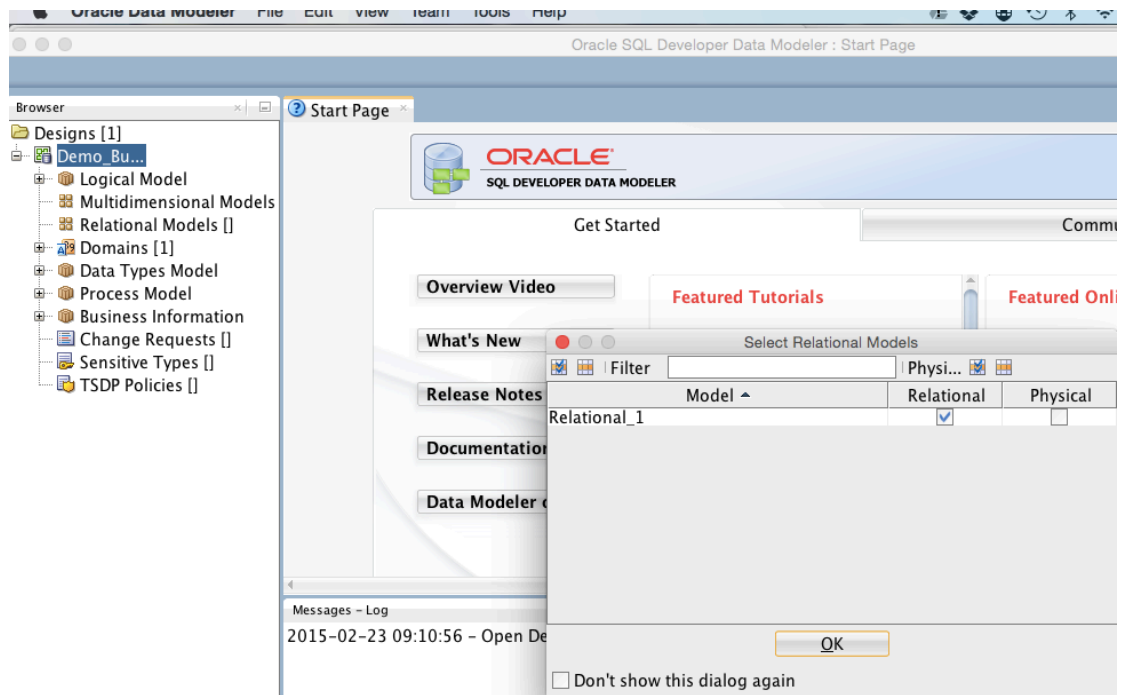
Now you can open your model through the Data Modeler application:



Use File > Open and navigate to where you saved your model:



Open the .dmd file



This opens your model in the state it was in when you saved it. You can use the menu bars to manipulate the views. For example, select all, right click and choose Layout and Resize all objects to visible.

Using the View menu you can decide how much detail you want in your diagram. 'All details' shows the schema name, the table name, the attributes and their data types, the keys (P beside primary, F beside foreign, U beside a unique constraint), the indexes (you will recognize the Primary keys because they will usually have 'PK' in their names). Foreign keys and other constraints are shown below the indexes.

I can look at the detail of a table using the browser on the left:

