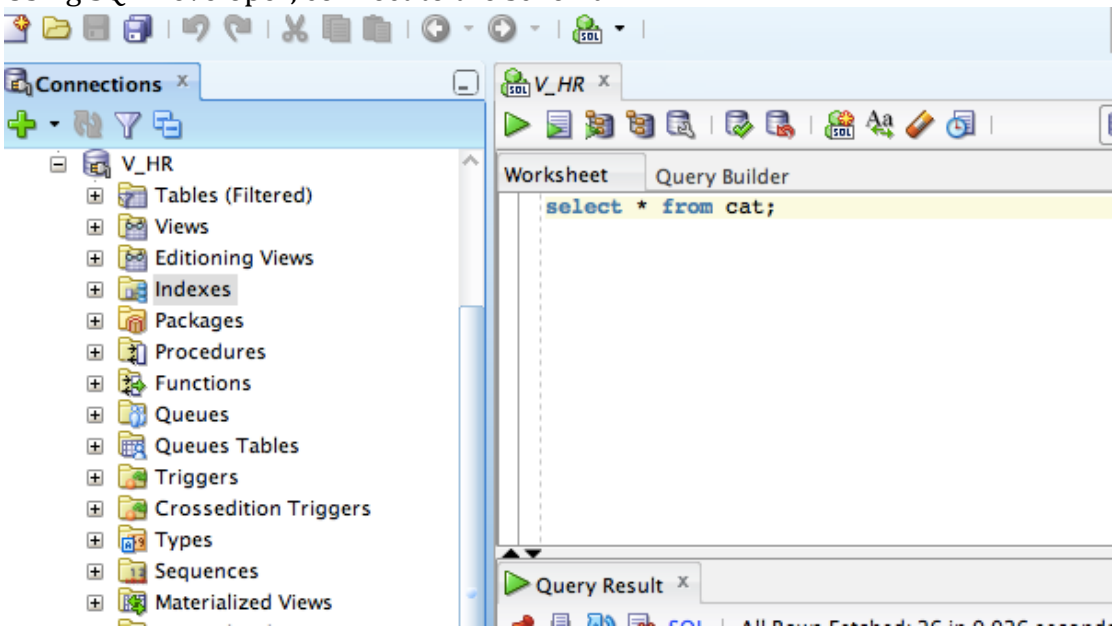
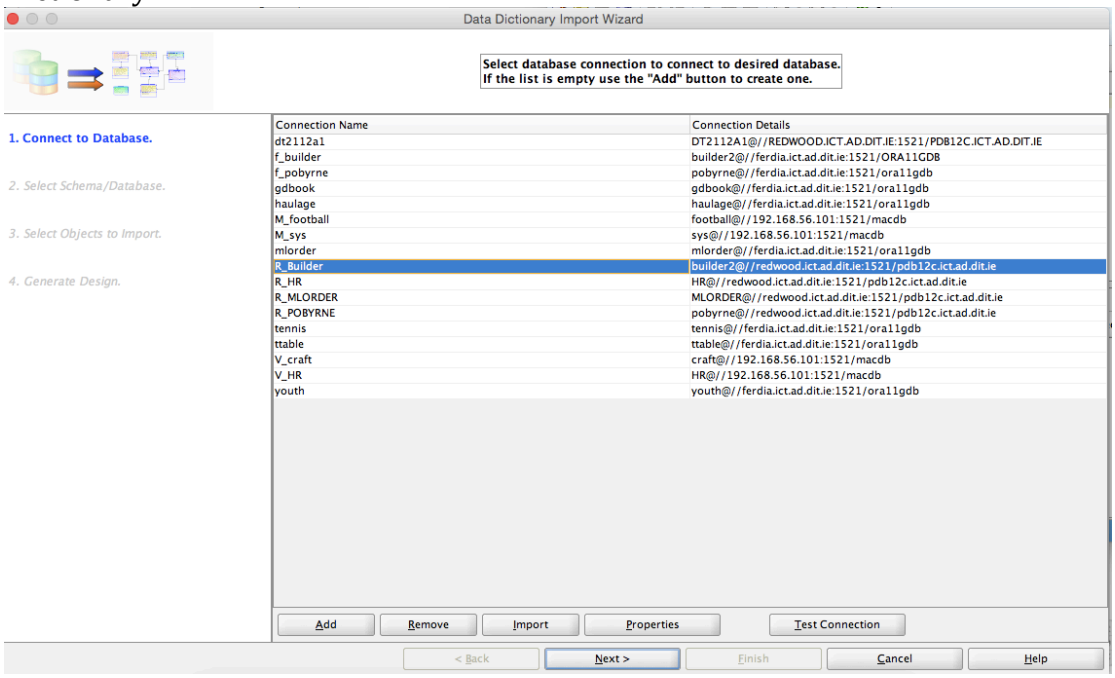
Designing a system with Data Modeler

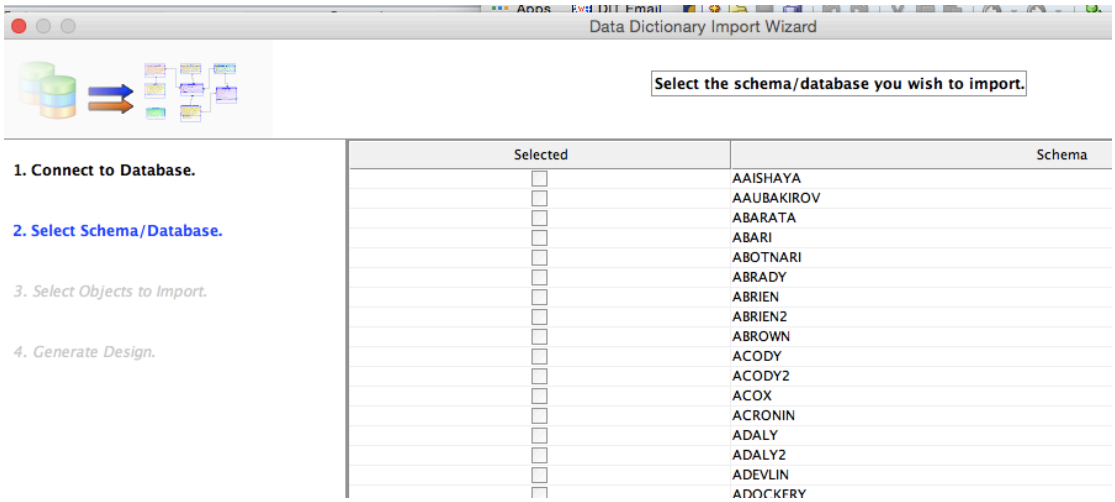
1. Start with an empty schema!
2. Using SQL Developer, connect to the schema



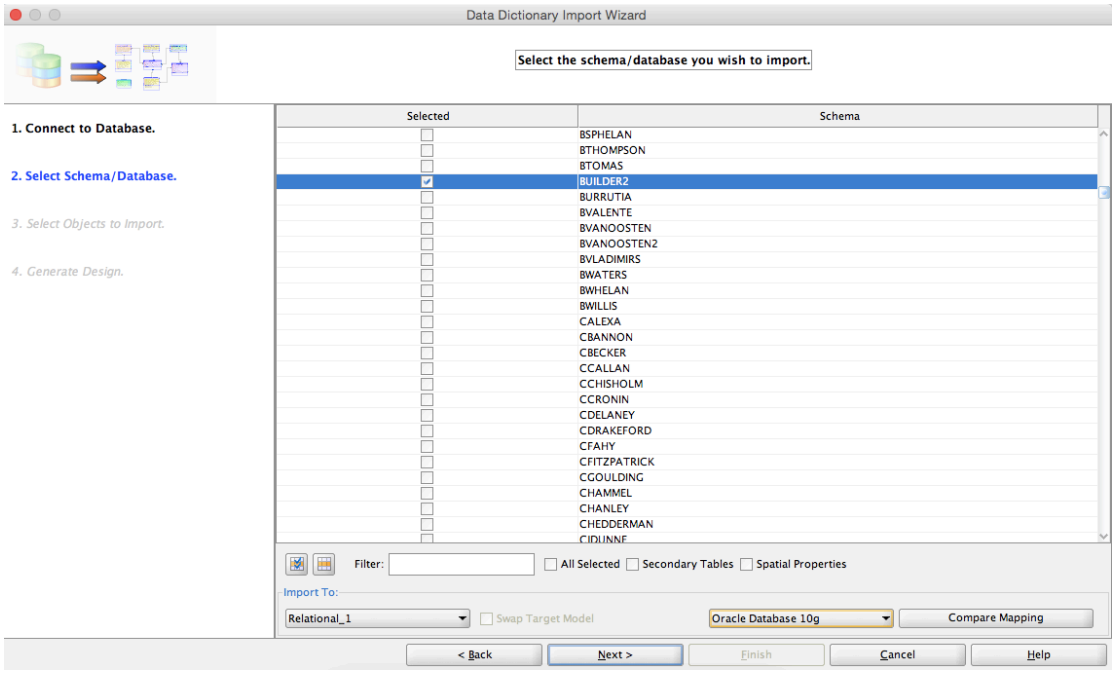
3. From the top menu bar, choose File > Data Modeler > Import > Data Dictionary.



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

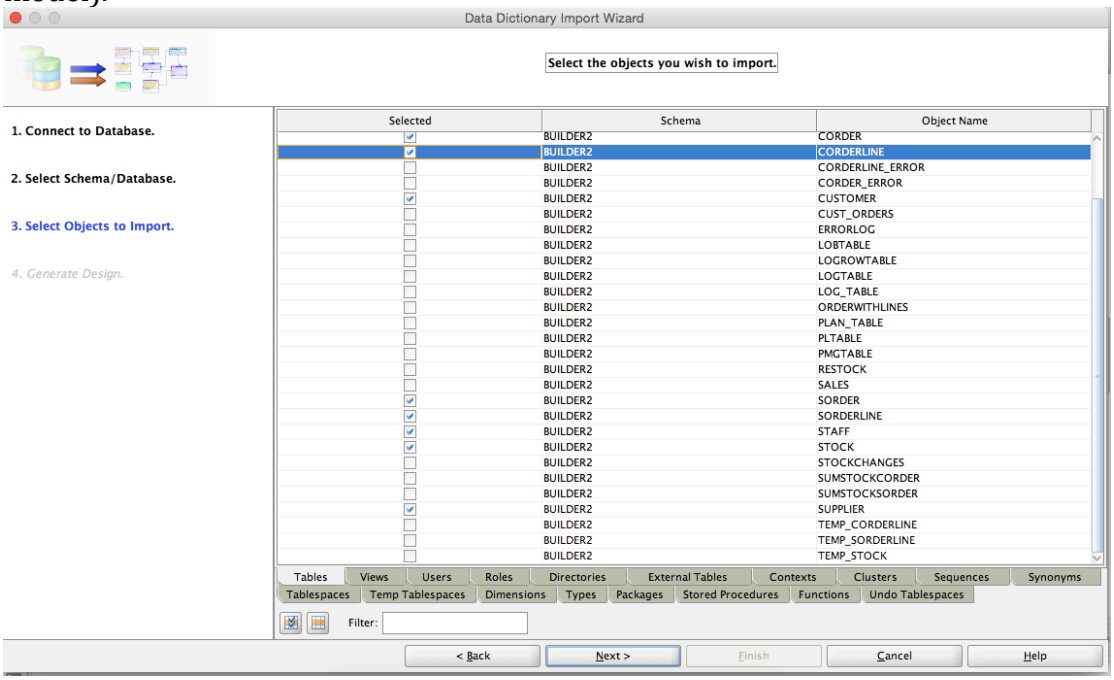


Scroll down to the schema you want to model and tick the box.

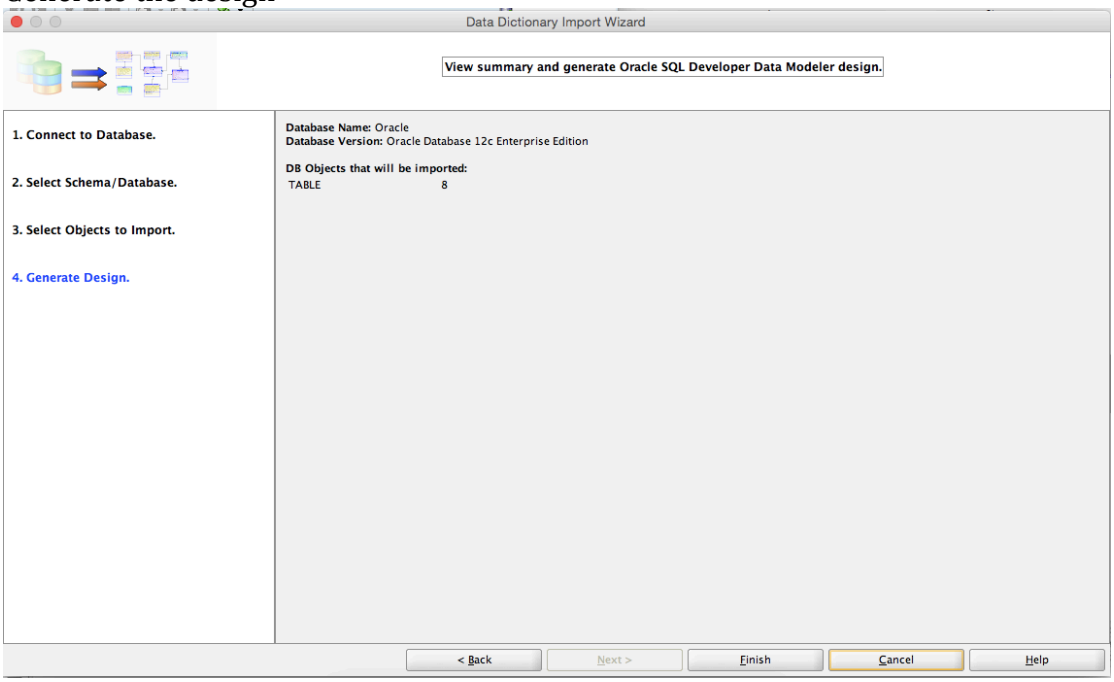


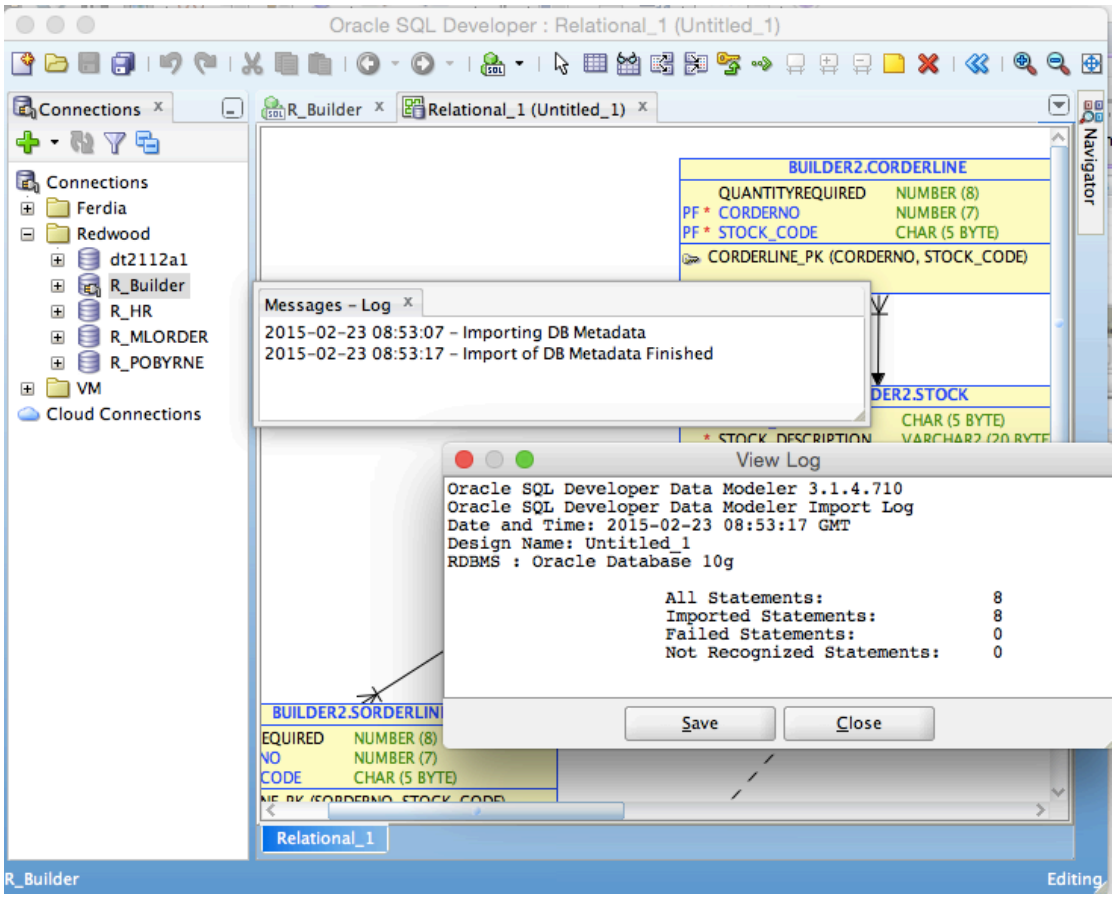
Click Next.

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

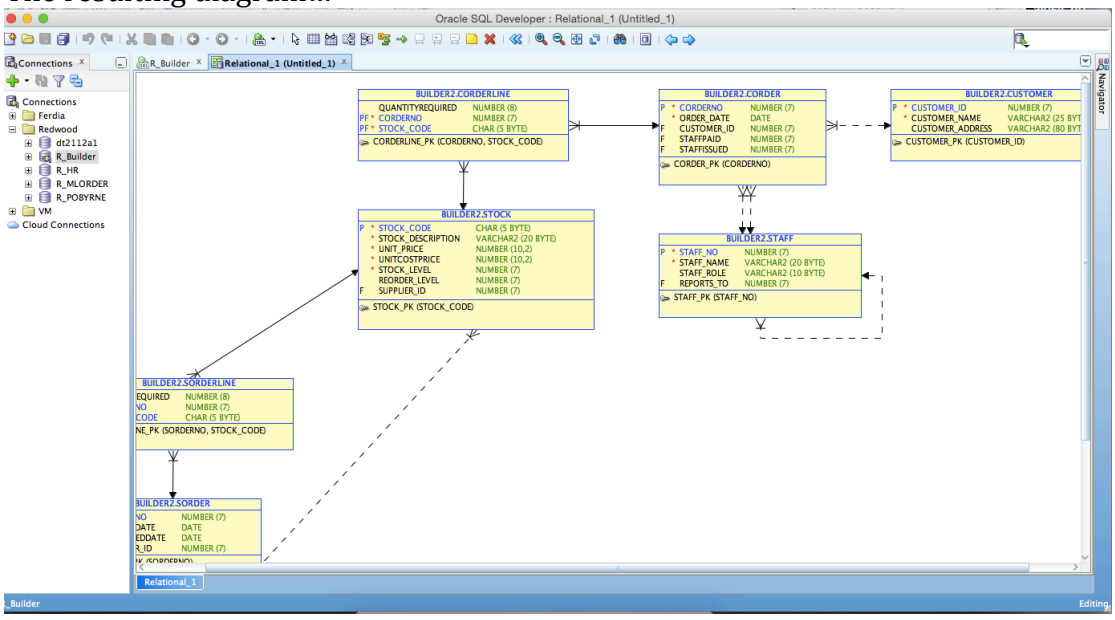


6. Generate the design

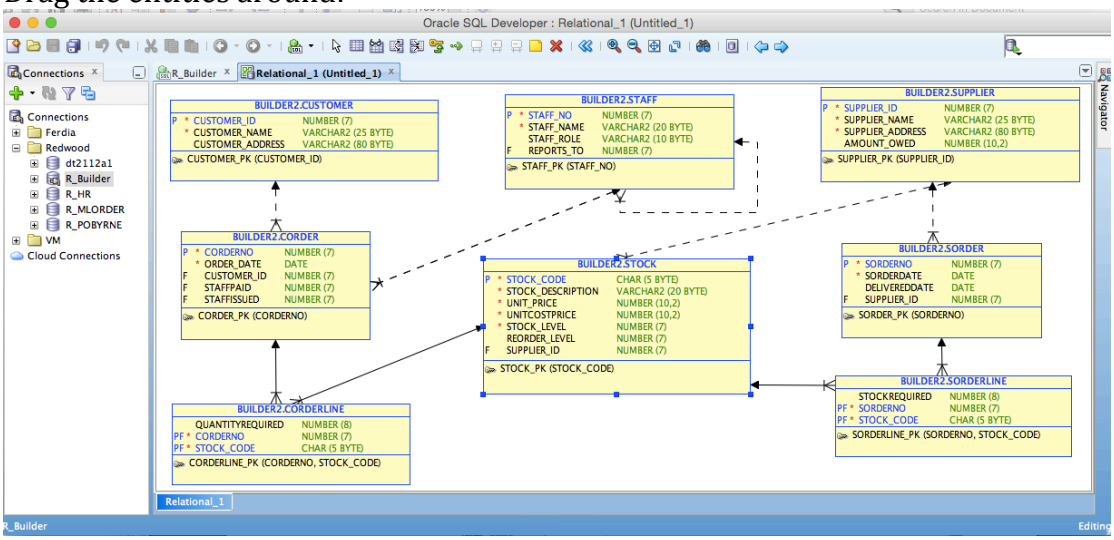




The resulting diagram...

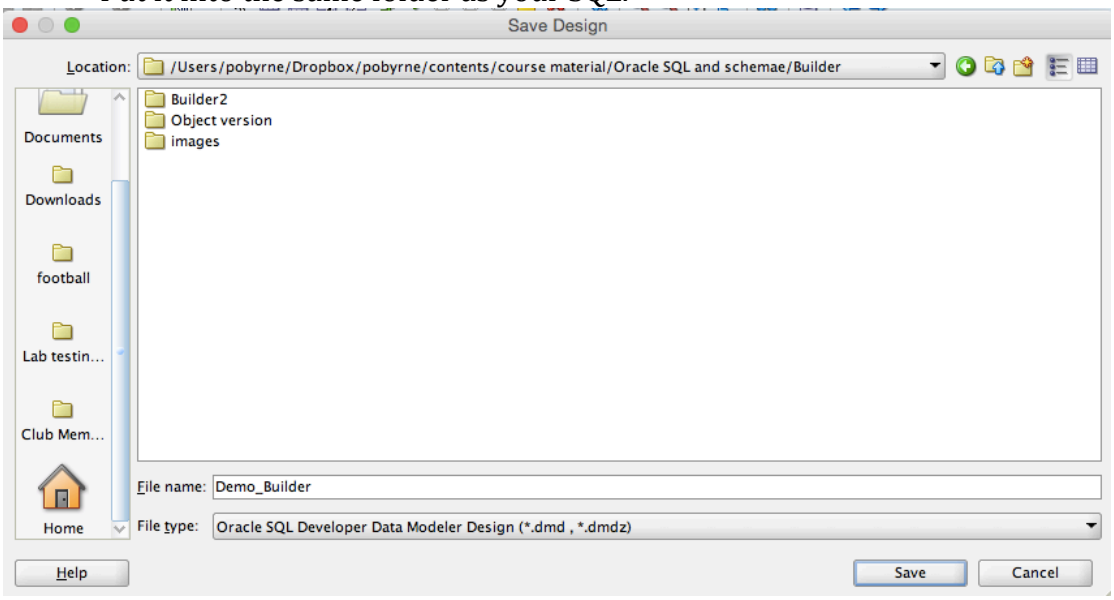


Drag the entities around:

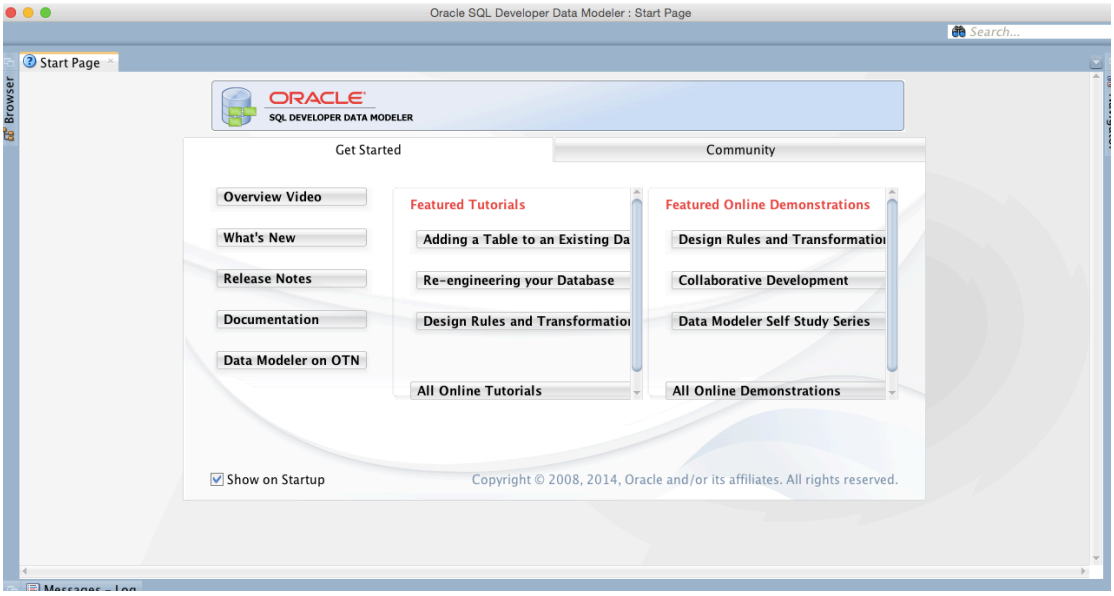


Now save your model – go back to the top menu bar – File > Data Modeler > Save as:

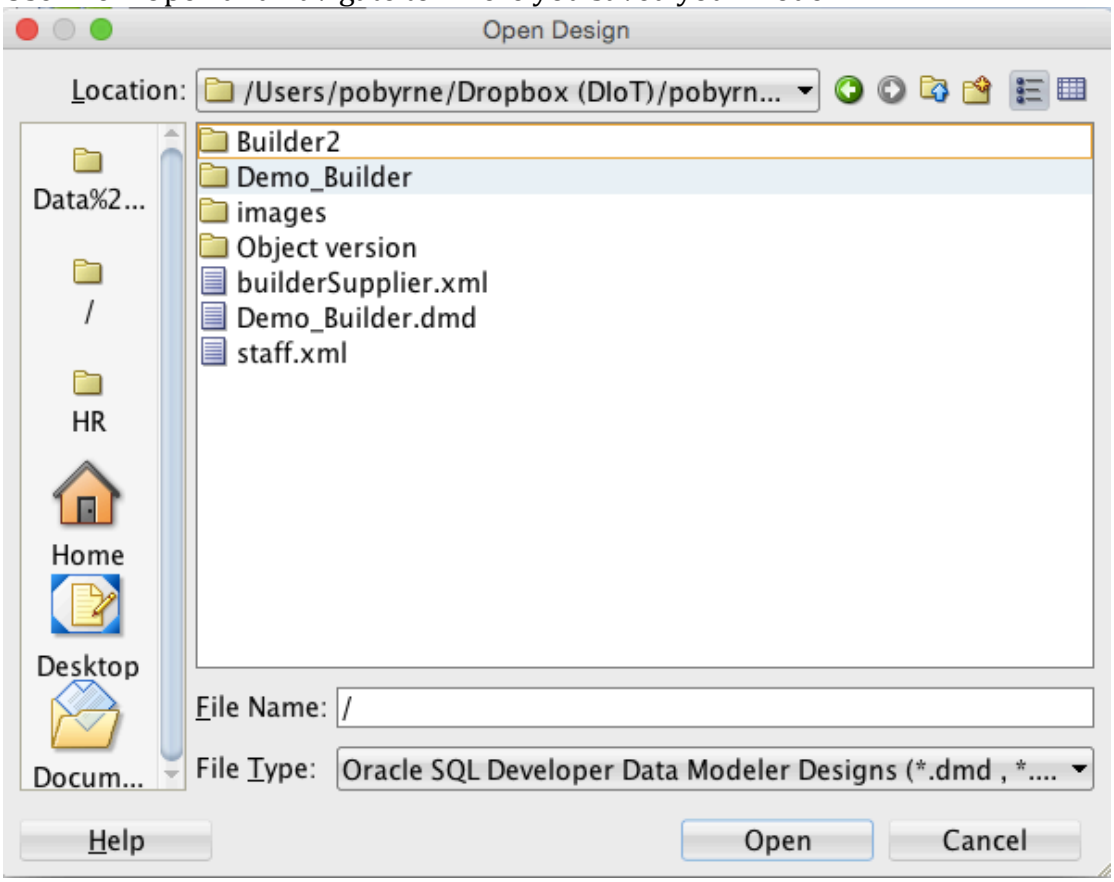
Put it into the same folder as your SQL.



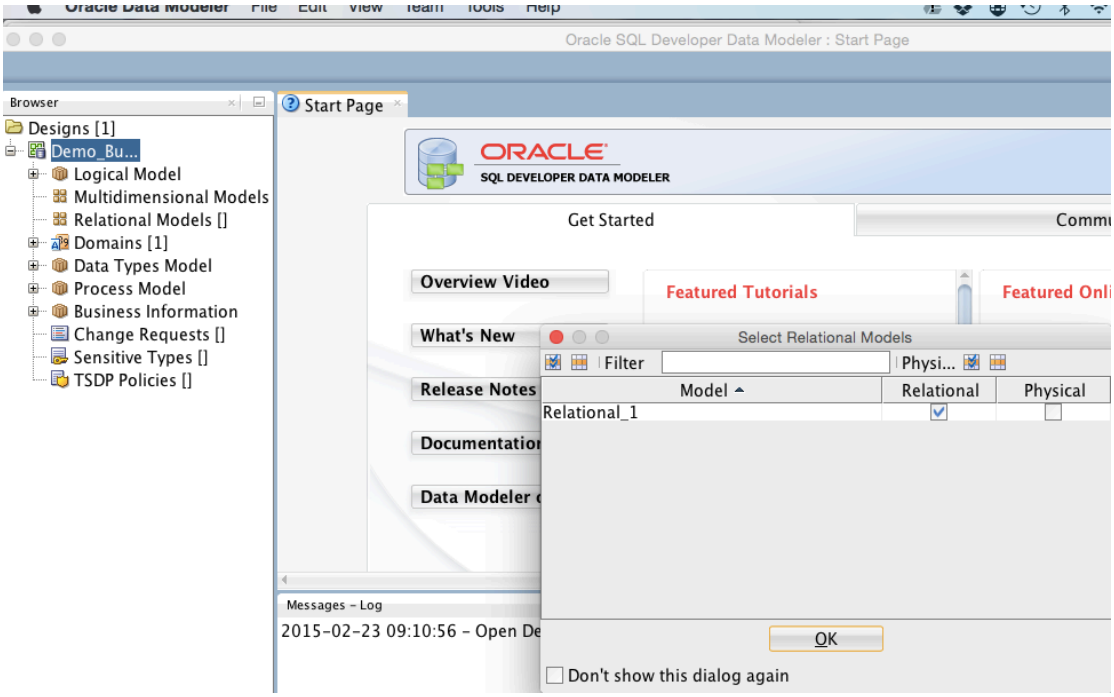
Now you can open your model through the Data Modeler application:



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



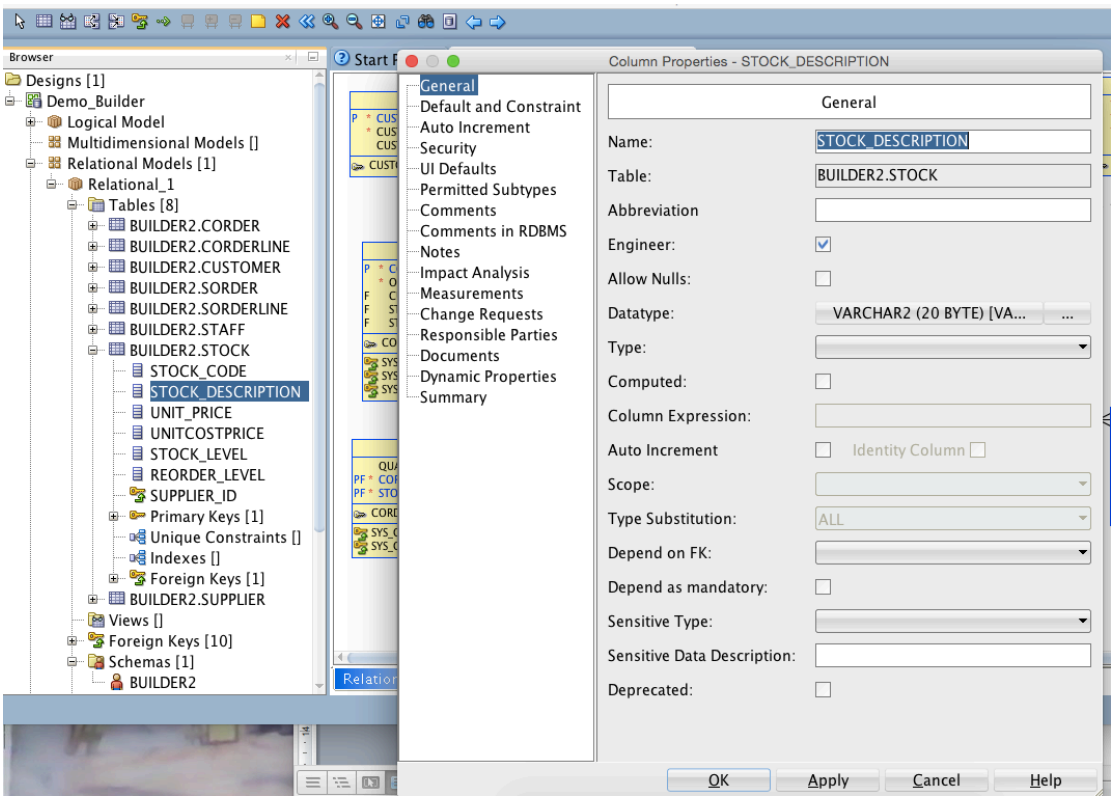
Open the .dmd file



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:


Browser
Designs [1]
Demo_Builder
Logical Model
Multidimensional Models []
Relational Models [1]
Relational_1
Tables [8]
BUILDER2.CORDER
BUILDER2.CORDERLINE
BUILDER2.CUSTOMER
BUILDER2.SORDER
BUILDER2.SORDERLINE
BUILDER2.STAFF
BUILDER2.STOCK
STOCK_CODE
STOCK_DESCRIPTION
UNIT_PRICE
UNITCOSTPRICE
STOCK_LEVEL
REORDER_LEVEL
SUPPLIER_ID
Primary Keys [1]
Unique Constraints []
Indexes []
Foreign Keys [1]
BUILDER2.SUPPLIER
Views []
Foreign Keys [10]
Schemas [1]
BUILDER2
Column Properties - STOCK_DESCRIPTION
General
Default and Constraint
Auto Increment
Security
UI Defaults
Permitted Subtypes
Comments
Comments in RDBMS
Notes
Impact Analysis
Measurements
Change Requests
Responsible Parties
Documents
Dynamic Properties
Summary
General
Name:
STOCK_DESCRIPTION
Table:
BUILDER2.STOCK
Abbreviation
Engineer:
Allow Nulls:
Datatype:
VARCHAR2 (20 BYTE) [VA...
Type:
Computed:
Column Expression:
Auto Increment
Identity Column
Scope:
Type Substitution:
ALL
Depend on FK:
Depend as mandatory:
Sensitive Type:
Sensitive Data Description:
Deprecated:
OK
Apply
Cancel
Help