

CREATING METADATA USING DATA MODELING TOOLS

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DBAS3021

NSCC-IT Campus

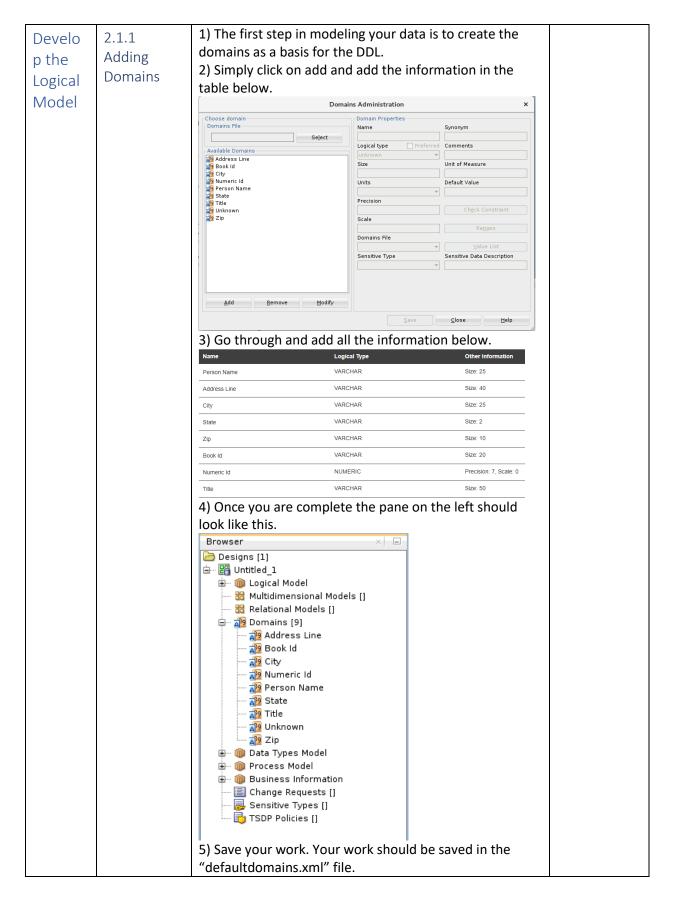
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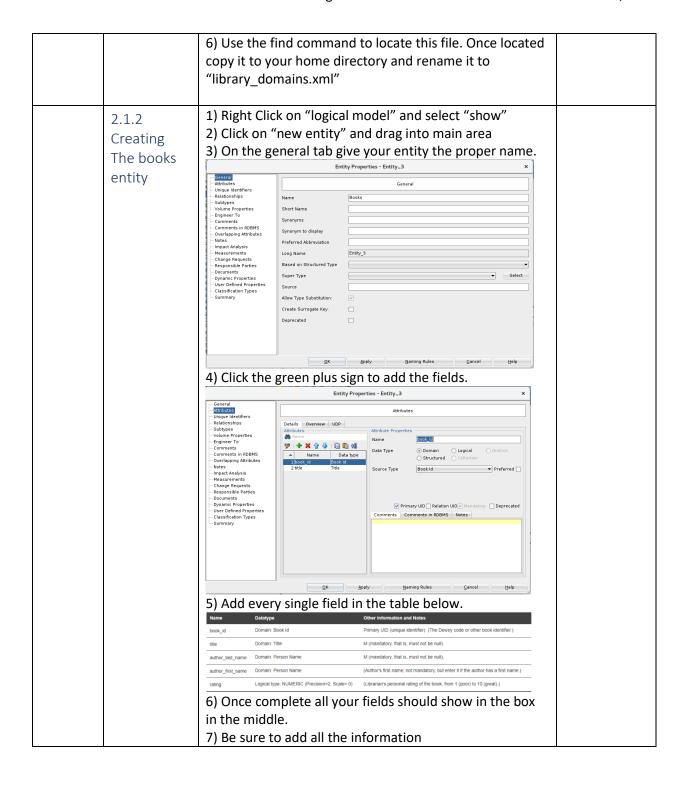
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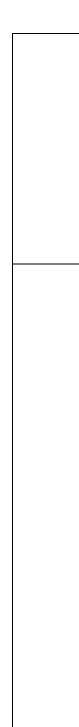
Introduction

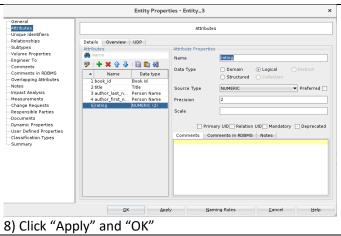
Upon the beginning of the program we were faced with creating ERD diagrams in visio. Now we are learning that there are more efficient ways of producing diagrams with the use of metadata and Data Modeler. In this assignment the steps used to create such data will be broken down.

Activity List				
Project: C	reating Metac	data Using Data Modelling Tools	Date: 28/10/2018	
Activity	Activity	Description Of Work	Responsibilit	
ID	Name		y	





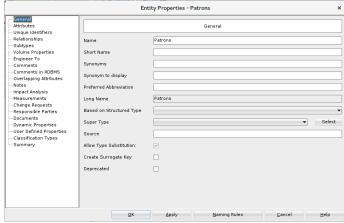




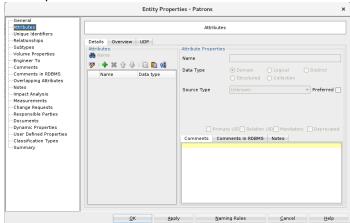
8) Click Apply and C

2.1.3 Creating Patrons Entity

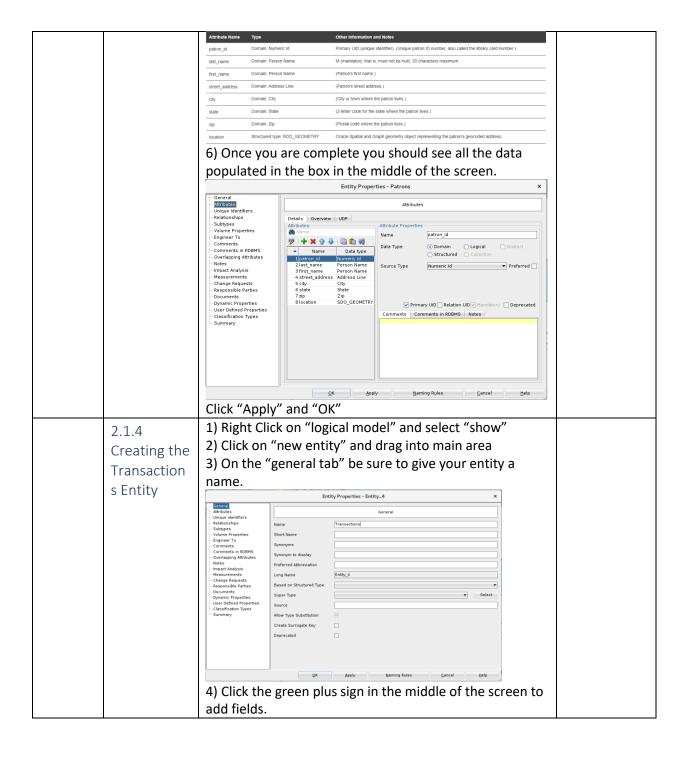
- 1) Right Click on "logical model" and select "show"
- 2) Click on "new entity" and drag into main area
- 3) On the general tab give your entity a name.

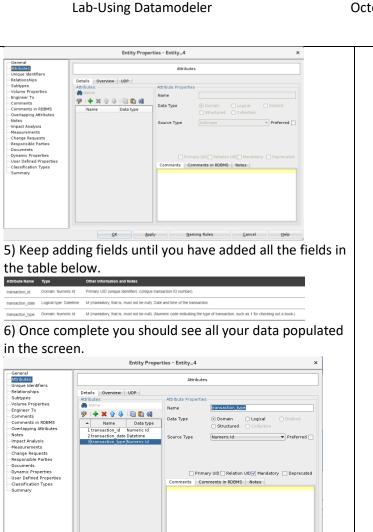


4) On the attributes tab click the green plus sign to add the required fields.

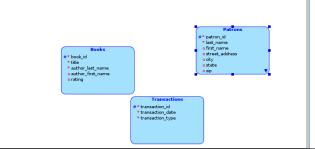


5) Keep going until you have added all the fields in the table below. Make sure to enter all the information.



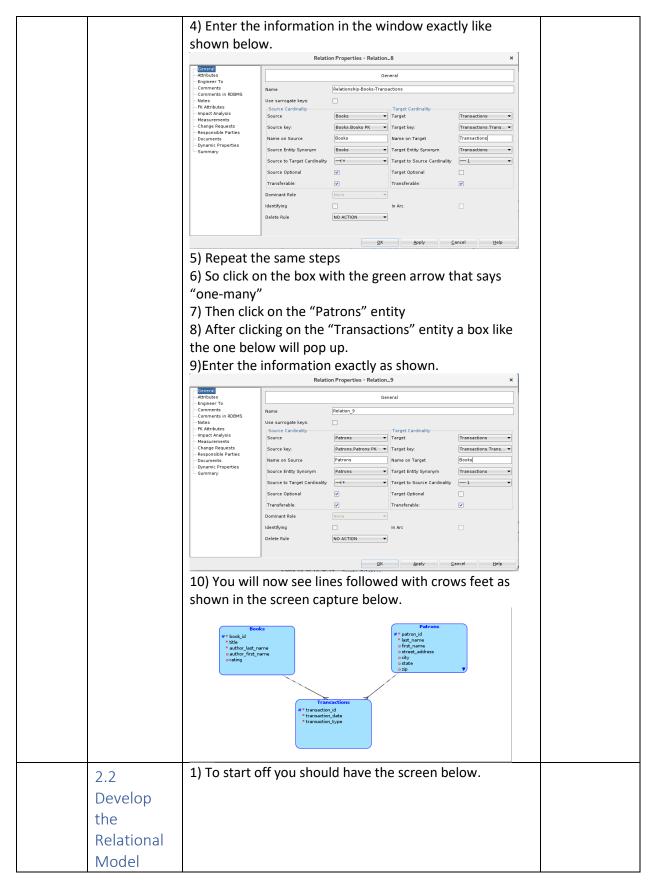


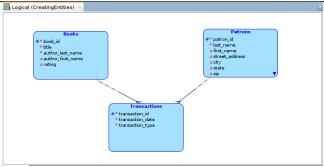
- 7) Once complete press "Apply" and "OK"
- 8) The box will close and you should see what looks like an Entity Relationship Diagram.



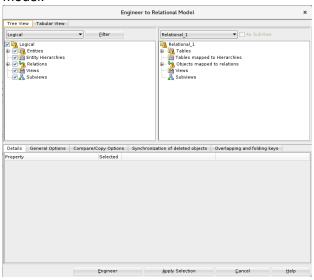
2.1.5 Create Relations Between Entities

- 1) At this point you should have a screen with 3 blue boxes. We will now create the relationships between them.
- 2) Click on the box with the green arrow that says "1 to many" and click on the "Books" entity and then click on the "Transactions" entity.
- 3) A box should pop up like the one below.

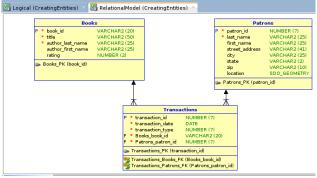




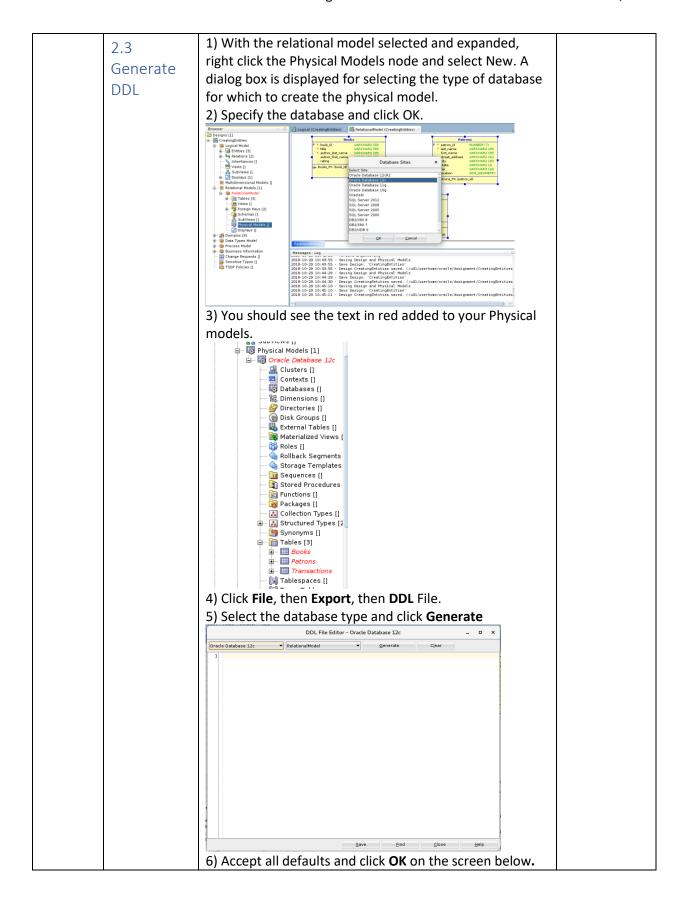
- 2) To achieve the relational model you should do the following.
- 3) With the logical model selected, click the engineer to Relational Model icon, then select Engineer to Relational Model. A box should now be displayed.
- 4) Accept all defaults and click "Engineer"
- 5) This will cause the relational model to be populated with tables and other objects that reflect the logical model.



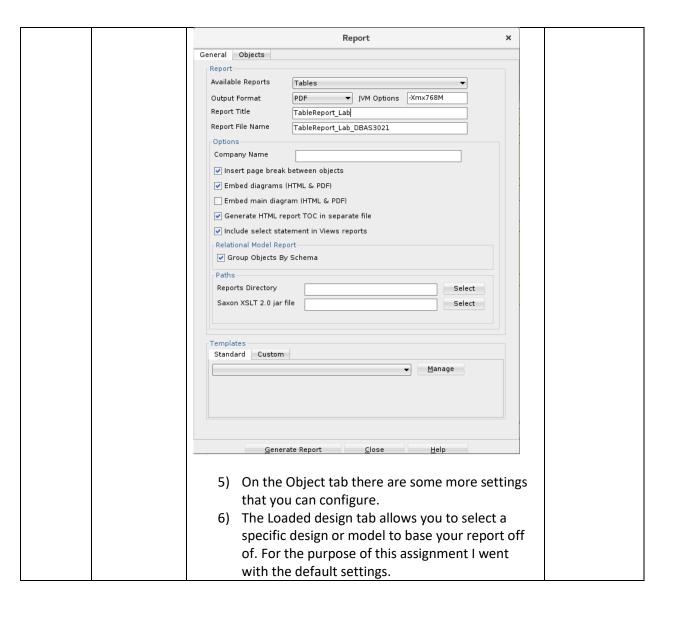
6) At this point you can position the boxes or expand them to see all the information.

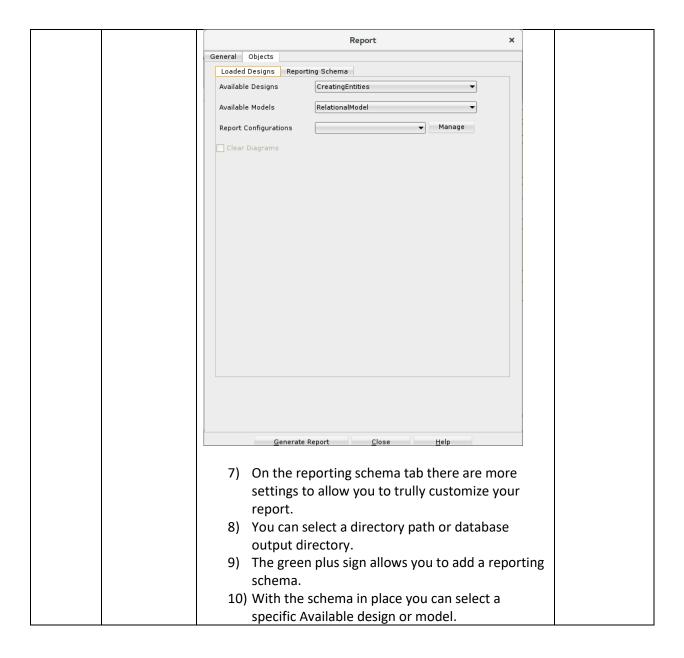


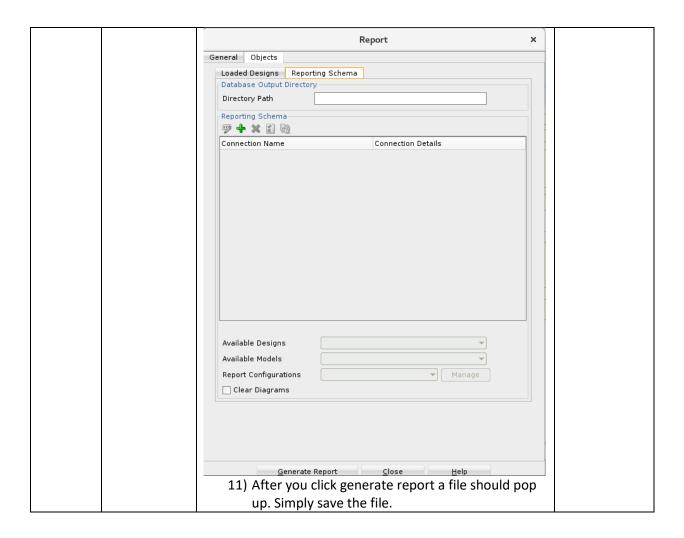
7) You can now save this new model as something descriptive so that you can reference it later.



	DDL Generation Options X "Create" Selection **Drop* Selection Name Substitution Include Table Scripts Include Table DDL Scripts Oracle Errors to Mask	
	Oracle Detailment 21X	
	R 2 G Varia (scenari	
	Tree View Tables PK and UK Constraints Indexes Foreign Keys Views Clusters Dimensions Materialized Views Synonyms Sequences	
	Benap jon Indexes Edernal Tables Collection Types Toppars Packages Package Sodies Stured Procedures Functions Structured Types	
	See Configur. Lead Configur. QK Sencel 1949	
	7) A DDL editor should be displayed with the SQL	
statements to create the tables and add constraints		
	8) Save the DDL file as SQL file somewhere that you can	
	remember.	
Create a	1) Creating reports is an important task for a DBA to	
MetaData	learn. Here is how to create a report in	
	DataModeler.	
Report	2) On the General Tab select what you want the	
	report to be of. For the purpose of this	
	assignment I selected "Tables"	
	3) You should also select the output format. I	
	selected pdf but there are other options.	
	4) You should give your report a Title and a file	
	name.	
	•	







Summary

Data Modeler is a great tool for DBA's because it allows you to build databases without the trouble of creating ERD's in visio which is good because visio is expensive. But also, Data Modeler is quicker to use by simply entering the entities you are dealing with and then data modeler generates the DDL for you which can be time consuming to create manually.

References

Oracle. (2018). Data Modeler Tutorial-Modeling for a small database. Retrieved from https://docs.oracle.com/cd/E39885 01/doc.40/e48205/tut data modeling.htm#DMDUG36179

Glossary

	Commands Used
Find /u01 -name "defaultdomains.xml"	