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OBIEE Beginners Guide - IV

This document contents step by step approach working with Logical Tables with screen shots.

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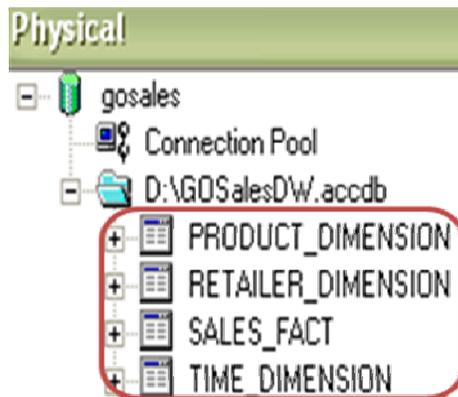
Team BISP

Working with Logical Tables

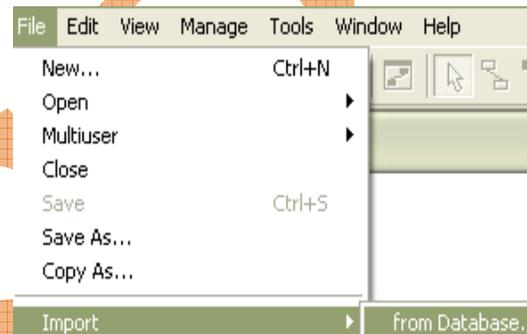
By adding multiple logical table sources and columns you denormalize the database as business requirement. The Denormalized table structure follows a business model and is easier to understand so it provides better query performance. When you add tables or columns data may be duplicated in several locations in a database. You can form star schema for it.

To add a new logical table source you should import the table to physical layer.

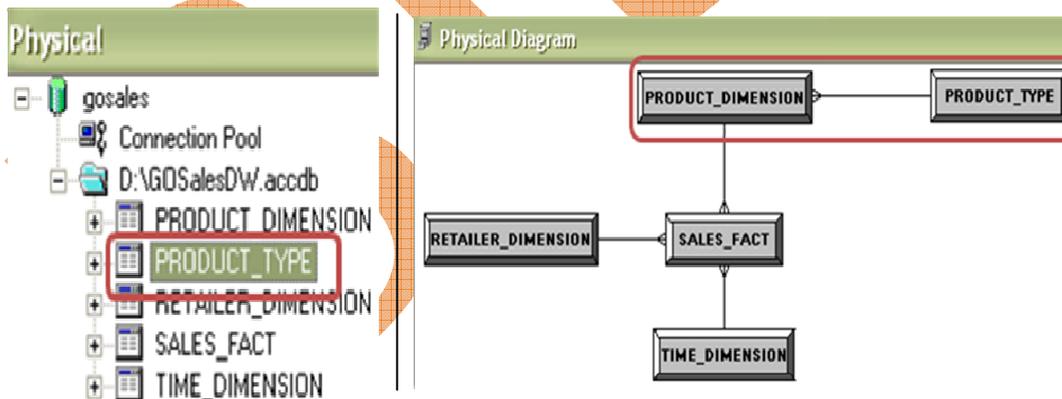
View of Physical Layer Before importing



Now import the table into physical layer



You can see the imported new table PRODUCT_TYPE in physical layer



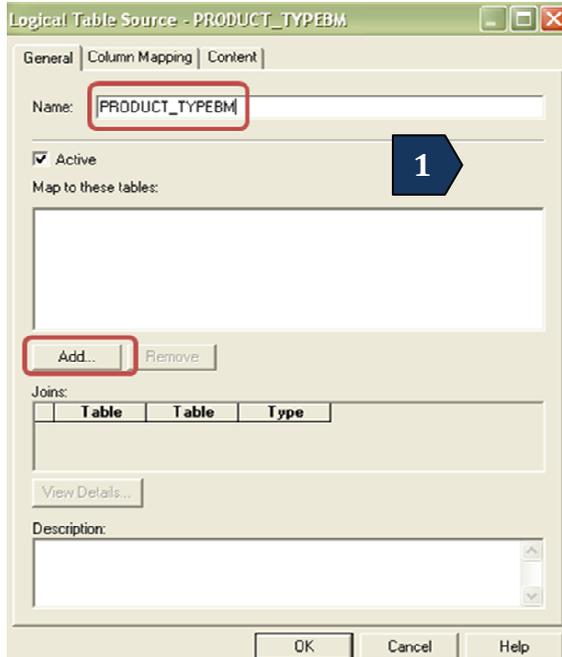
Define the keys and joins for the imported table in the physical layer examine the existing tables and primary key for the newly added table make relationship. This make a snow flake schema in physical layer like the above diagram for this table.

Now add table to Business Model and Mapping layer using these two methods

- Create Manually.
- Simply Drag and Drop. **Try to make a star schema in BMM Layer.**

a) Follow the below instruction to create Logical Table Manually.

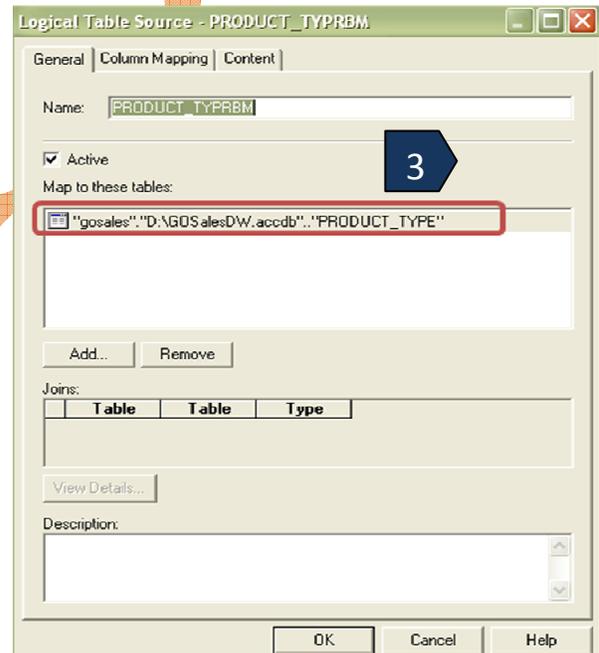
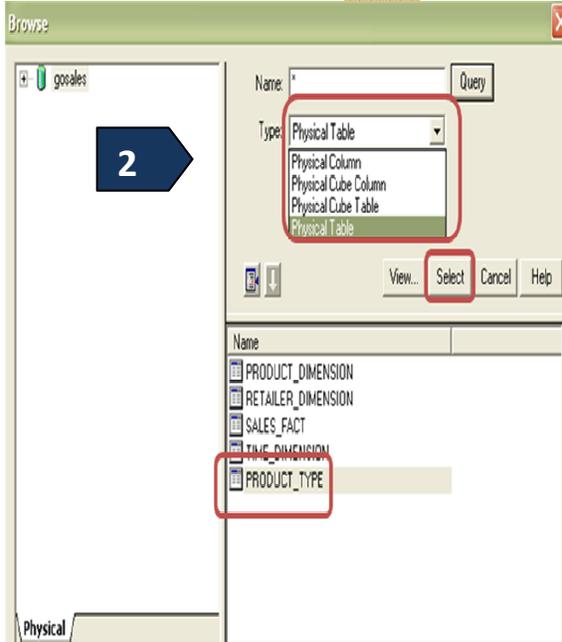
Right Click on the Schema or table in Business Modeling and Mapping Layer and Select New Object → Logical Table Source. Or Right Click on the Sources folder of a table and select New Logical Table Source.



1).A new window Logical Table Source is open where you have to give a name for logical table in General Tab and then

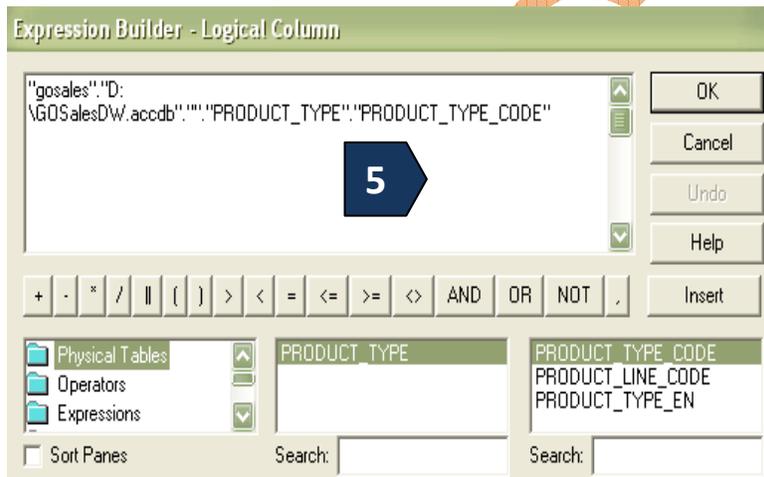
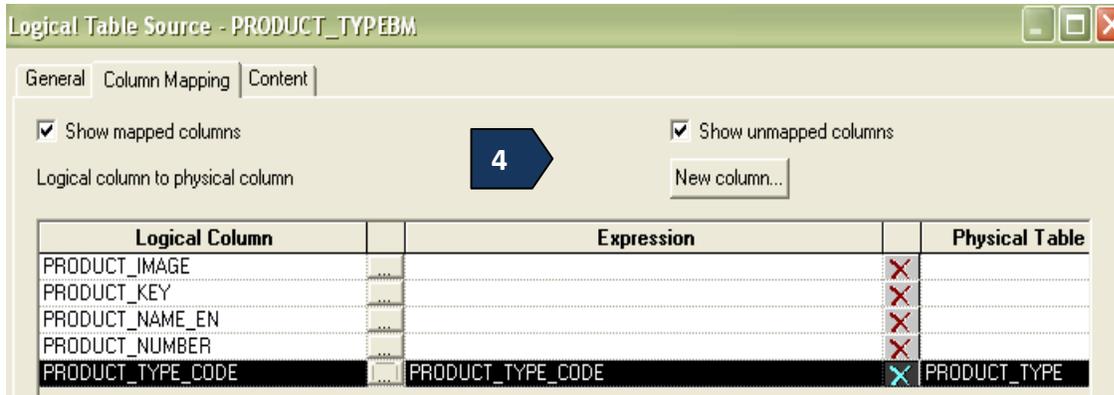
2).click on Add button where you should select Type Physical Type and add the table then Press Select button.

3).Selected Physical Table is added to Business Modeling and Mapping Layer.



Now map the columns from Column mapping tab

Examine the mappings and find that the PRODUCT_TYPE_CODE column maps to PRODUCT_TYPE_CODE in the physical table.



You can map the column for new logical table source using expression builder eclipse From the Column Mapping tab.

Map the logical columns to the corresponding physical columns.



Now you can see a new logical table source in the BMM layer. Your Table added.

- b) In Drag and Drop method just drag the table from physical table from physical layer and drop into BMM layer schema or in corresponding relevant table. The table automatically maps in this method you need to just check the mapping. All the corresponding columns of table were also dragged to the BMM layer.

Working with Logical Columns

You can create logical column using both methods Manual or Drag & Drop.

- a) Create Logical Columns Manual
- b) Drag & Drop

a) Using the manual method create a new logical column.

Right-click on the Logical Table and select *New Object* → *Logical Column* give a name for it and press ok.

You can see your new added Column.

→ Now you need to map your column from physical layer so Right Click on the logical table from source folder in which you have added your new logical column and select *Properties* Choose *Column Mapping Tab* find your column and press on eclipse open expression builder to map it from relevant Physical layer column.

Map The Column with relevant Physical Column `PRODUCT_LINE_CODE` press insert and then OK

Logical Column		Expr
PRODUCT_IMAGE		
PRODUCT_KEY		
PRODUCT_NAME_EN		
PRODUCT_NUMBER		
PRODUCT_TYPE_CODE		PRODUCT_TYPE_CODE
PTYPE_LINECODE		PRODUCT_LINE_CODE

Now the new logical column has been mapped you can see the mapping for it.

So your new Logical Column added to the BMM Layer Schema successfully.

B) Drag & Drop Method

You can Add Logical Column from Physical Layer by just drag and drop the column from physical layer to BMM layer.

Click on the column and drag it from Physical Layer to BMM Layer in relevant table it maps automatically.