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**Monday, 30 December 2013**

## Pentaho Schema Workbench & Saiku Analytics - Quick Introduction

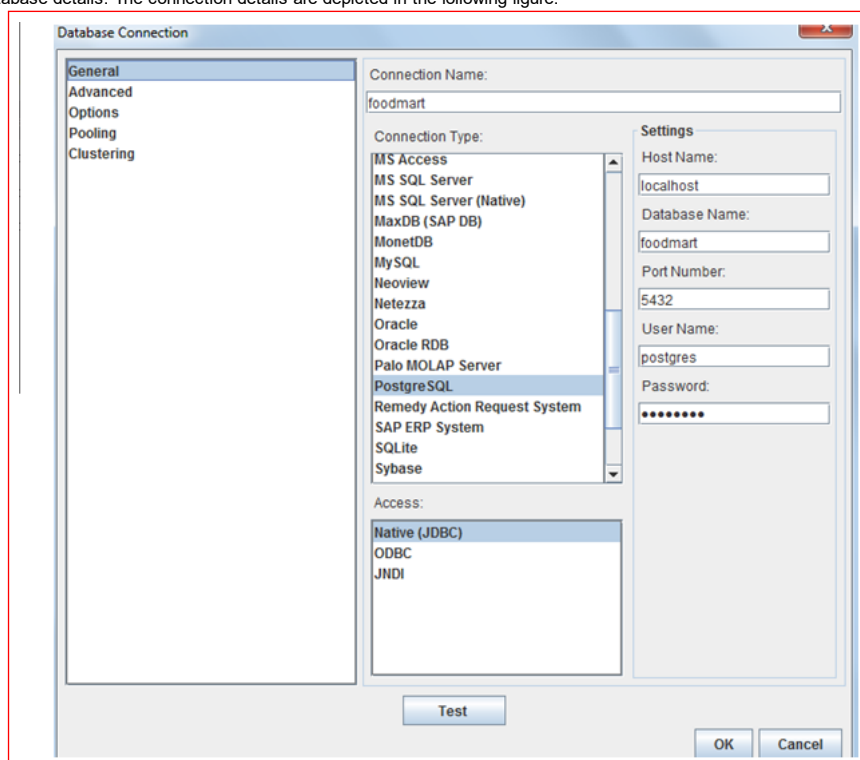
### Working with PSW

Example:  
Schema Workbench - Creating an OLAP Schema

### Database Connection

Connecting to postgres database.

- Download the type4 driver from the following location <http://jdbc.postgresql.org/download.html>
- Add this driver in the "drivers" folder which is located at C:\Program Files (x86)\psw-ce-3.2.1.13885\schema-workbench\drivers
- Restart the schema work bench.
- Now do the following steps.
- Go to "Options" then Click on "Connection". i.e, Options→Connection
- Give the database details. The connection details are depicted in the following figure.



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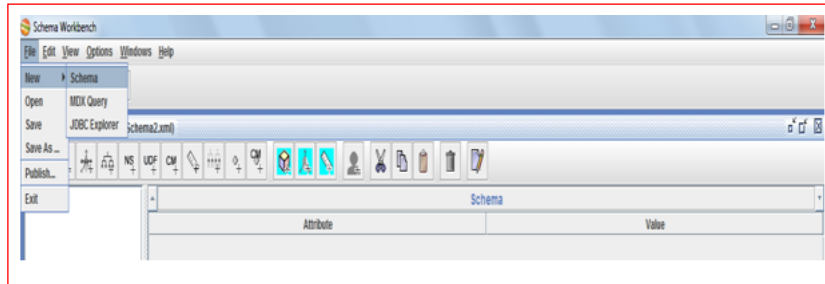
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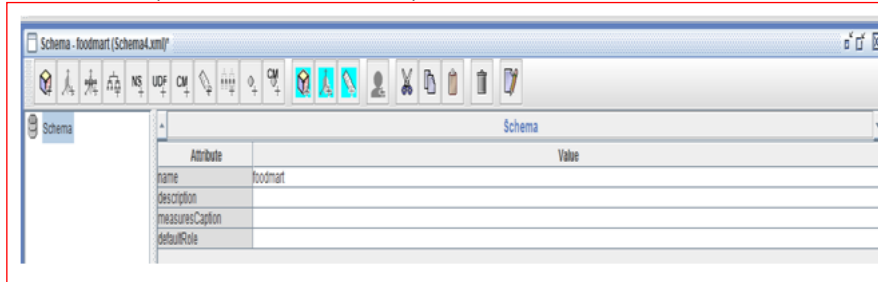
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## Schema

Step 1:- File->New->Schema

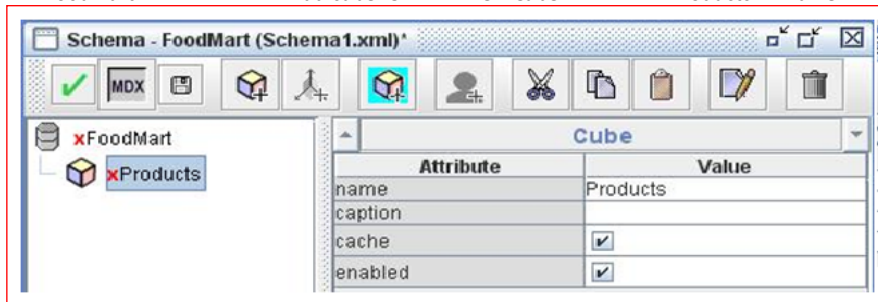


And give the Schema Name(our schema name is foodmart) as follows



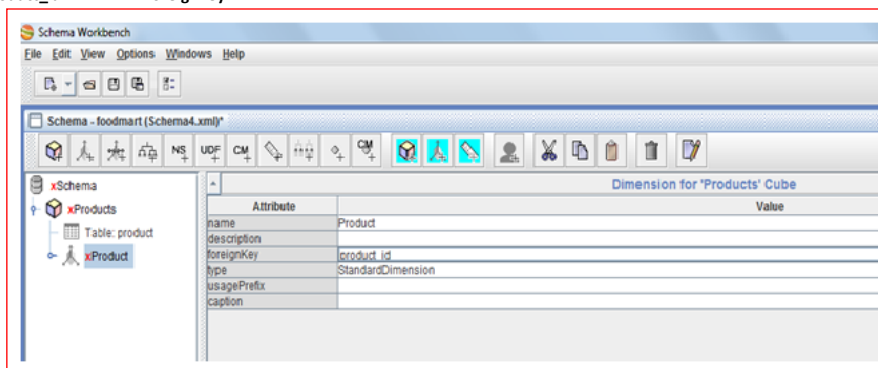
## CUBE

Right click on **Foodmart** schema and do **Add cube**. Click on **New Cube 1** and write **Products** for name attribute.

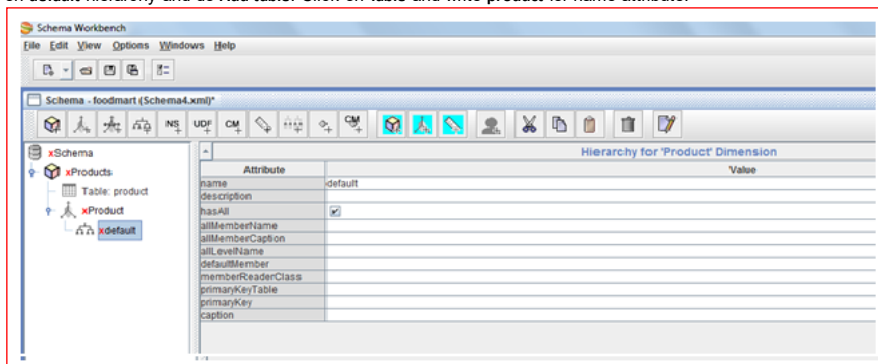


## Dimension

Right click on **Products** cube and do **Add Dimension**. Click on **New Dimension 1** and write **Product** for name attribute. Choose **product\_id** column for **foreignKey** attribute.



Right click on **default** hierarchy and do **Add table**. Click on **Table** and write **product** for name attribute.

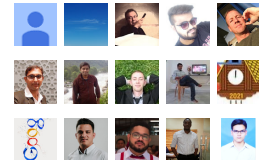


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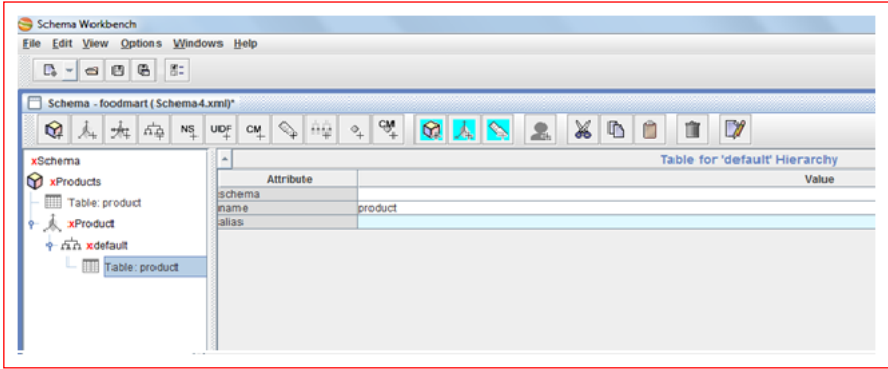
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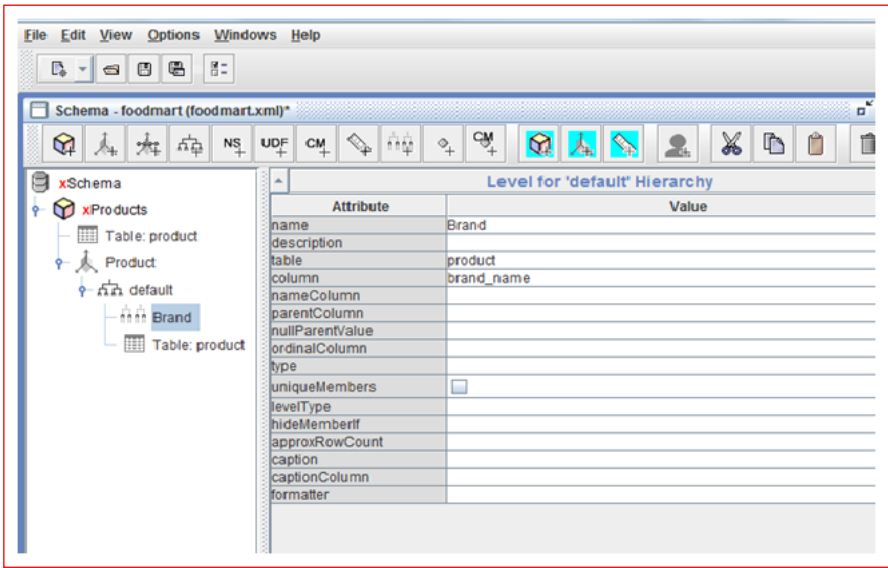


Level

Right click on **default** hierarchy and do **Add Level**. Click on **New Level 1** and fill out the following fields:

**Brand Level Attributes**

**Name:**Brand  
**Table:** product  
**Column:**brand\_name



Repeat the previous step to create two levels as below:

Name and SKU Levels Attributes		
name	Name	SKU
table	product	product
column	product_name	SKU

Measure

Right click on **Products** cube and do **Add Measure** twice. Click on **New Measure 0** and **New Measure 1** then fill out the following fields:

Product and Class Numbers Attributes		
name	product number	class number
aggregator	distinct-count	distinct-count
column	product_id	product_class_id

by passing parameters. Exarr  
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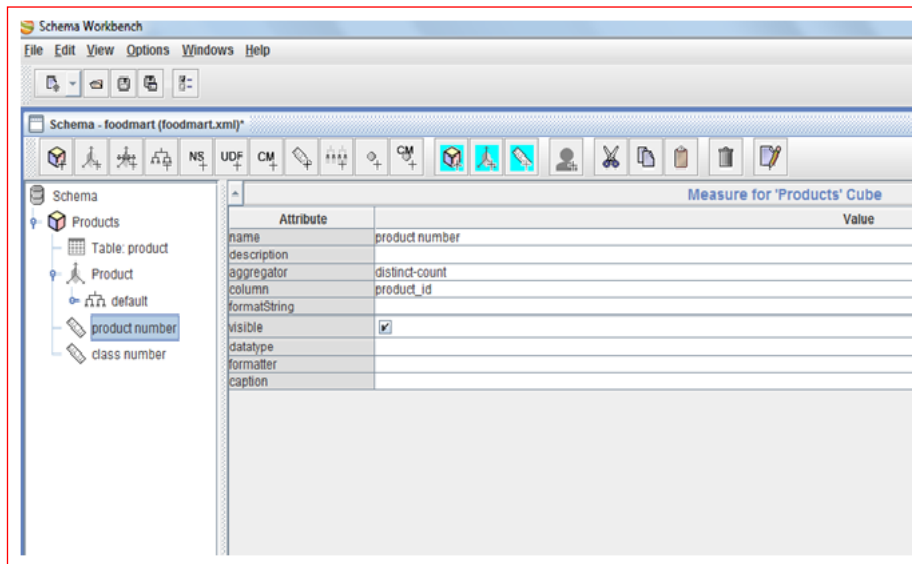
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Save your Schema

Click on File > Save As. Choose a path and a name for your schema.

You have done with designing the CUBE.

## Working with Saiku Analytics

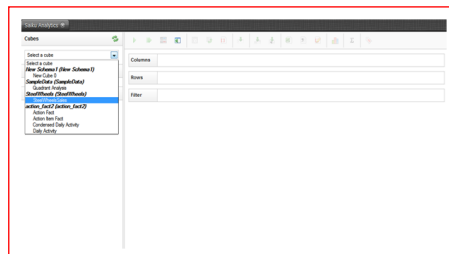
### Example:

Steel Wheels CUBE demonstration in Saiku Analytics

- CUBE is designed using PSW and published to the BA server.
- Images below describe how to create Ad-hoc reporting using Saiku Analytics and the features of Saiku Analytics.

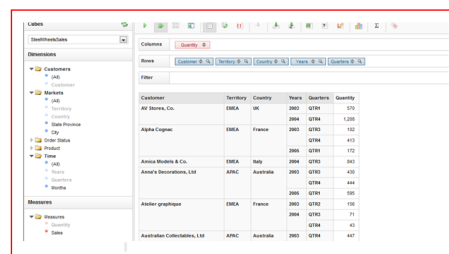
### 1) Selecting CUBE to be used for Ad-hoc reporting after publishing to the BA Server.(Example of Steel Wheels CUBE)

- We can select the cube on which we want to perform ad-hoc reporting.



### 2. Drag and drop Dimension and measures to the Columns and Rows

- We can drag drop the fields(Dimensions) to the rows and values to the columns(Measures).



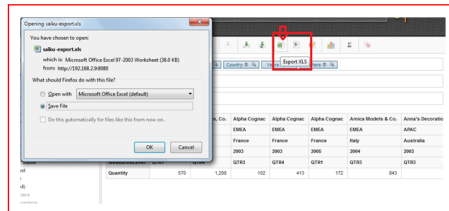
### 3. Swapping Axis Feature –

- Swapping the same output of above image

Customer	Territory	Years	Quarters	Quantity
AV Stores, Co.	EMEA	2004	QTR1	570
Amica Models & Co.	EMEA	2004	QTR4	1,208
Atelier graphique	EMEA	2004	QTR3	102
Australian Collectables, Ltd	APAC	2004	QTR4	413
Australian Collectors, Co.	APAC	2004	QTR1	172
Auto Accessories & Co.	EMEA	2004	QTR3	843

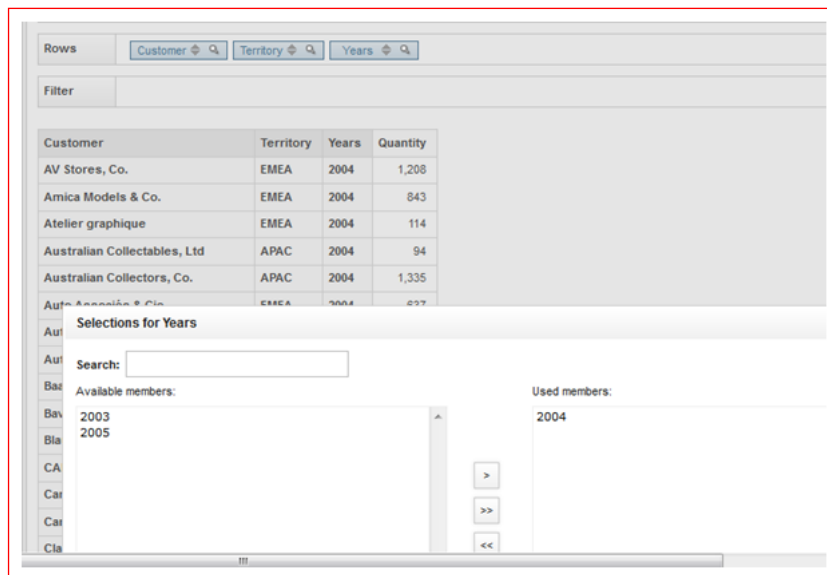
#### 4. Exporting to Spread Sheet

- We can export the data/charts displayed on the console to Excel format or csv format.



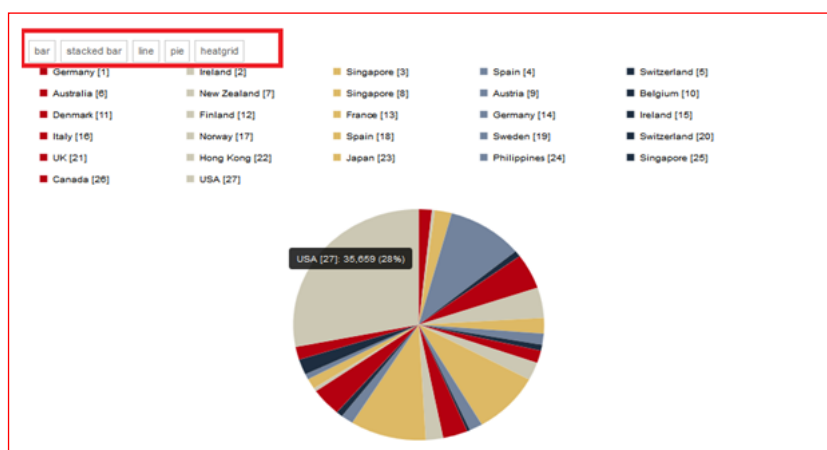
#### 5. Filter data (Year wise – 2004 data only displayed)

- Filtering the data – Click on particular row or column by which we want to filter.
- We can place the dimension in “Filter” section to filter data.
- Image below gives the idea on how to do this.



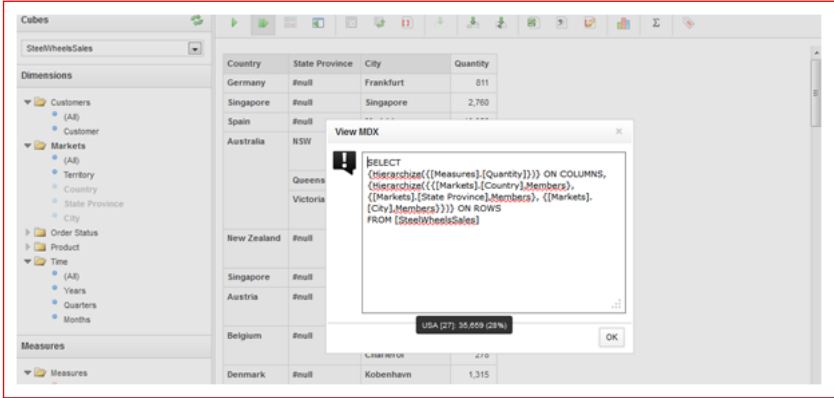
#### 6. Data Visualization – Interactivity

- Visualizing data on the charts.
- It is interactive.. On hovering to the slices it'll give the details of that slice as shown in below image.
- Supports stacked bar, bar, line and heat grid types.



7. MDX Query Analysis

- Saiku engine internally generates MDX queries.
- Also pentaho mondrian and sql log files we can find in the installation folder.
- For doing this we need to enable the log files.
- Mondrian engine internally converts the MDX queries to SQL queries.




Posted by [Sadakar Pochampalli](#) at [Monday, December 30, 2013](#)



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