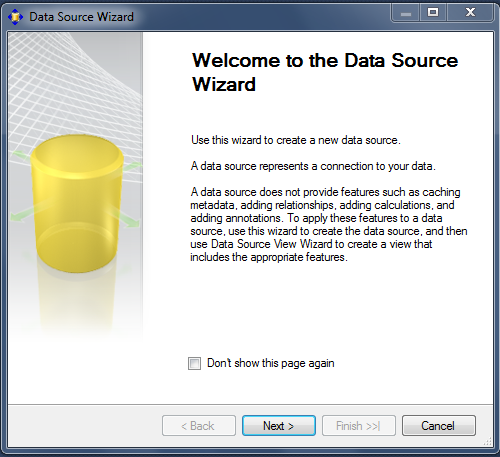
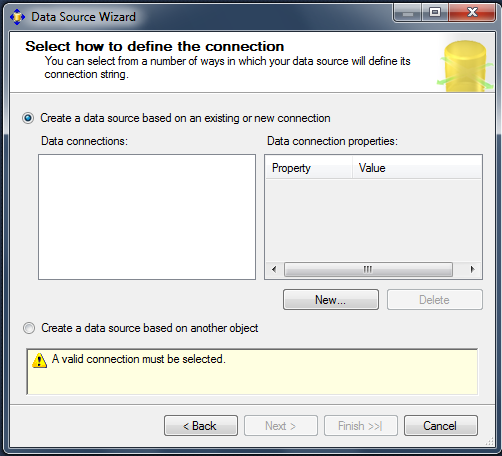
**Лабораторная работа 1**

**Create Data Sources**

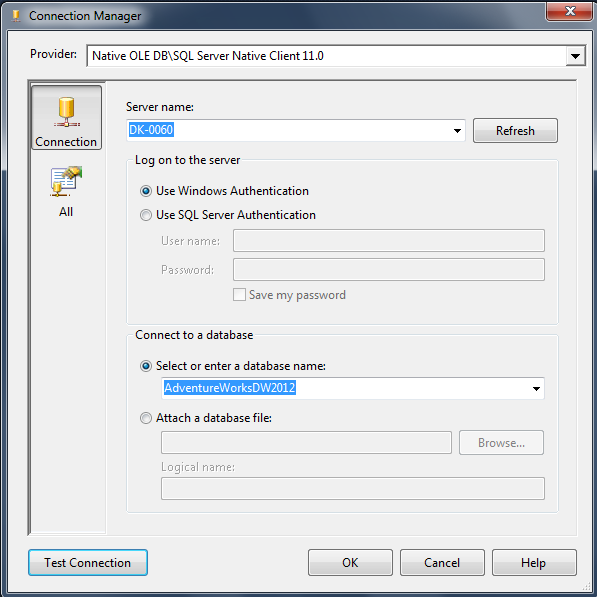
Select Data sources in Solution Explorer and right click on data sources --> New Data Sources.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s1-1.png)

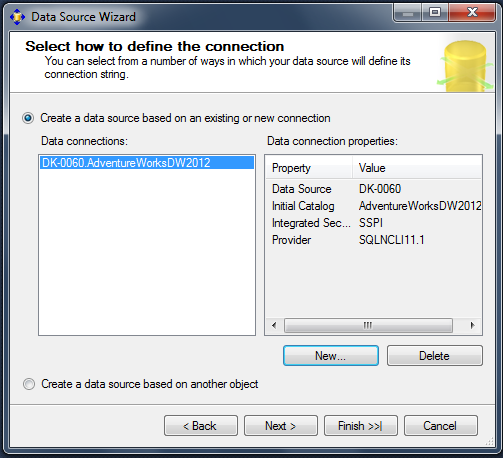
There is no existing connection. So click on New button

[](http://www.netwoven.com/wp-content/uploads/2014/06/s2-1.png)

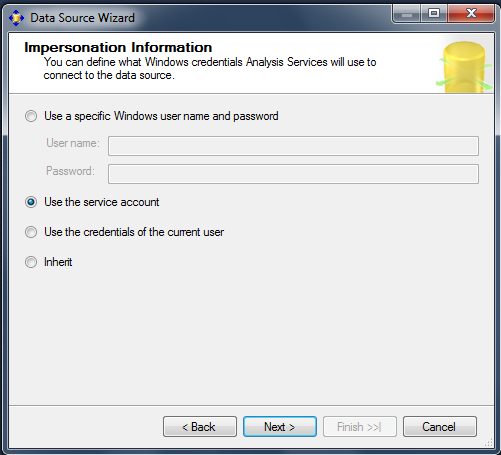
The following connection manager screen appears. Enter the Server Name Where SQL Server is Installed and Choose Database name and Click Ok.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s3-1.png)

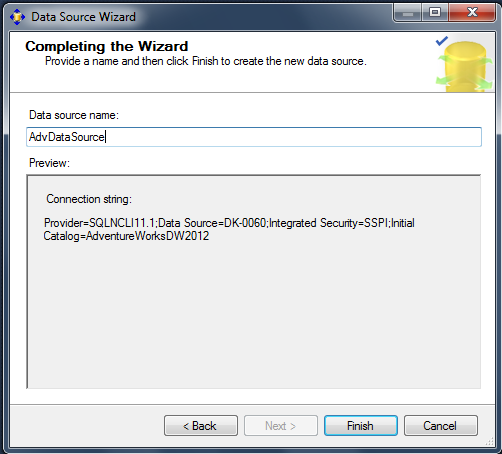
Now we can see a connection string created in left side of the Data Source Wizard, Click Next..

[](http://www.netwoven.com/wp-content/uploads/2014/06/s4-1.png)

Click on “Use the service account” Radio button and Click Next

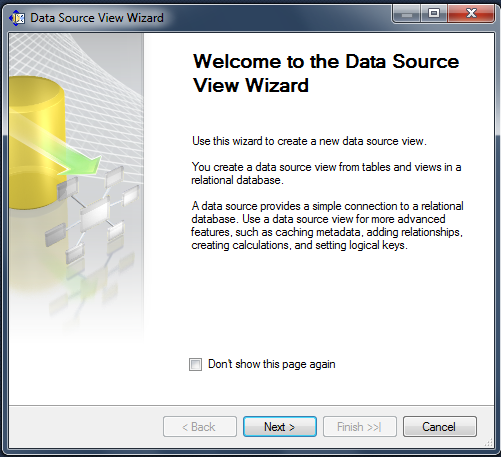
[](http://www.netwoven.com/wp-content/uploads/2014/06/s5-1.png)

Enter a Data Source Name and Click on Finish Button.

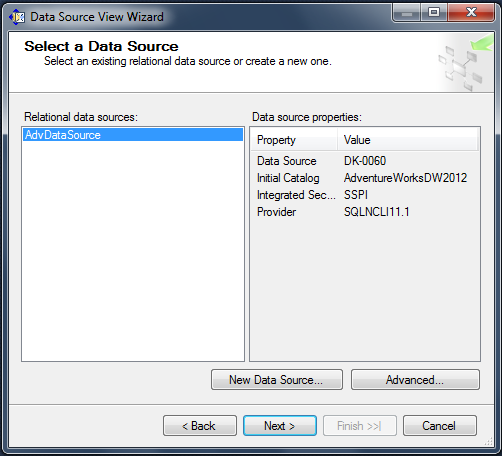
[](http://www.netwoven.com/wp-content/uploads/2014/06/s6-1.png)

**Create Data Sources View**

Select Data source View in Solution Explorer and right click on data source view --> New Data Sources view.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s7-1.png)

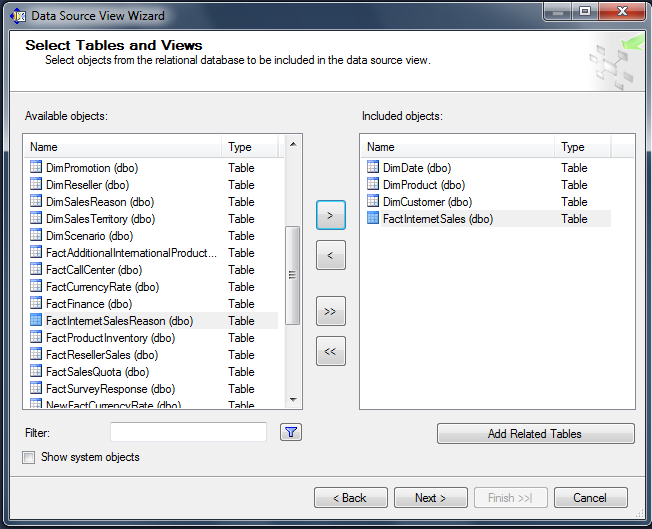
We can see a data sources is present in the left section of the Data source view wizard.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s8-1.png)

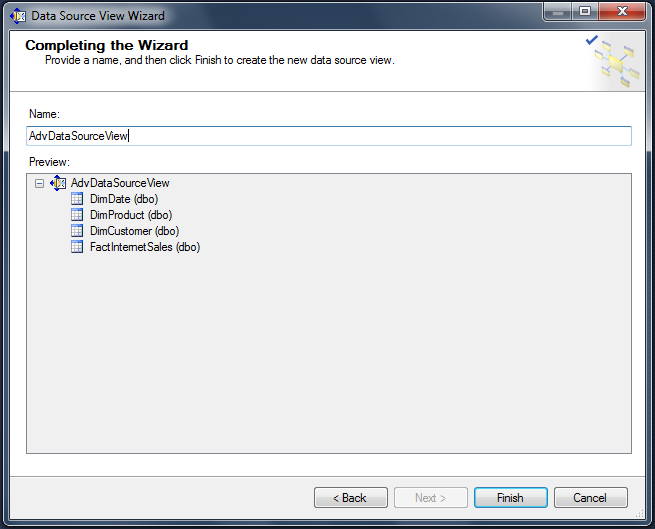
The following screen appears with all the tables that exists in the adventure works database.

Select “DimDate”, “DimProduct”, “DimCustomer” and “FactInternetSales” from the Available objects.

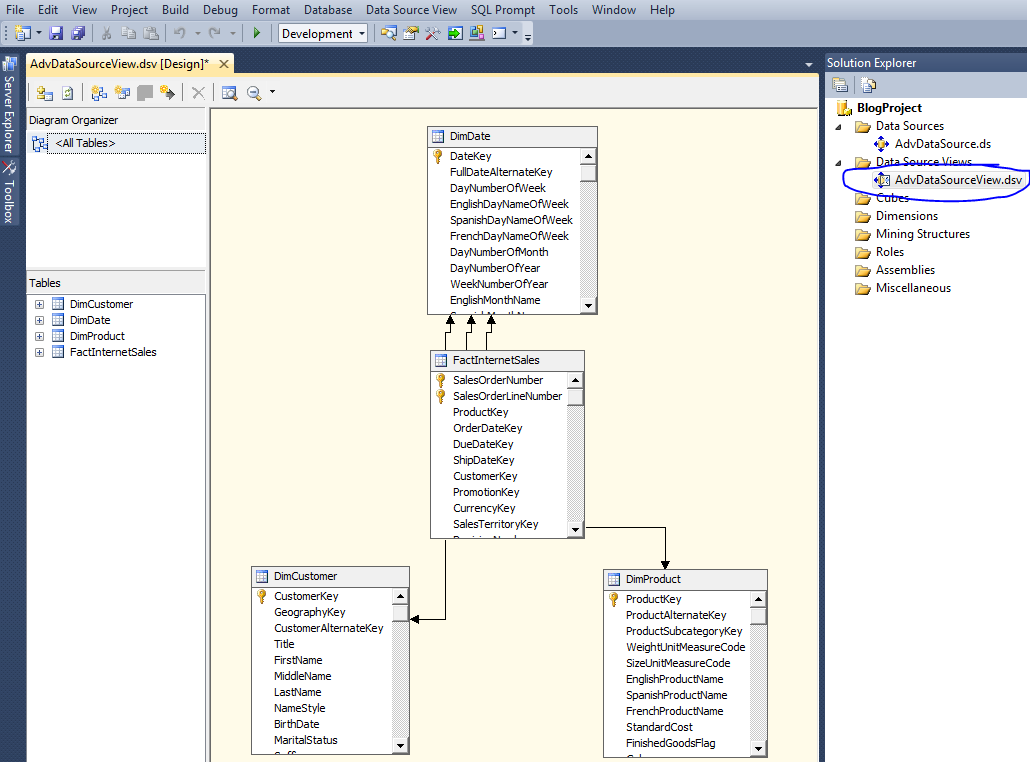
Click the “>” button to move those objects to Included objects.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s9-1.png)

Click on finish button to create data source view.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s10-1.png)

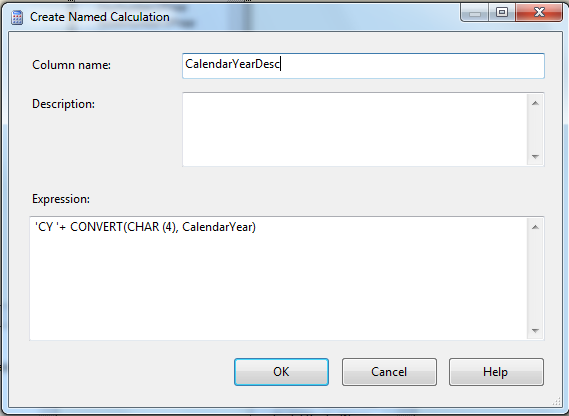
The following screen appears after creation of Data source view.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s11-1.png)

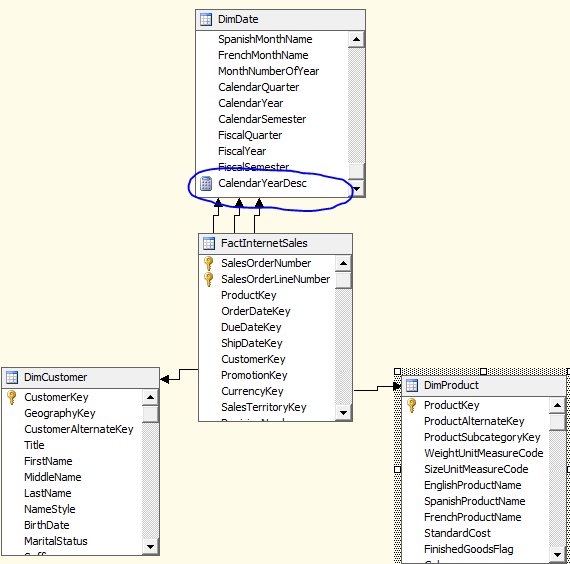
**Create New Named Calculation**

Select and right click “DimDate” to create New Named Calculation.

The Year format will look like CY2012, CY2013

[](http://www.netwoven.com/wp-content/uploads/2014/06/s12-1.png)

Click Ok and the following Screen appears. The “CalendarYearDesc” named calculation is created in “DimDate” Dimension.

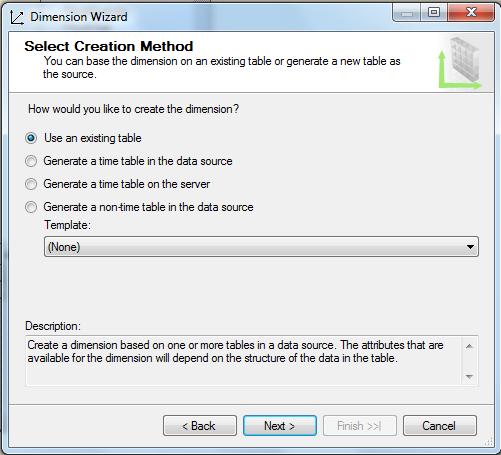
[](http://www.netwoven.com/wp-content/uploads/2014/06/s13-1.png)

**Now to create three dimensions like Date, Product and Customer (Create Data Dimension)**

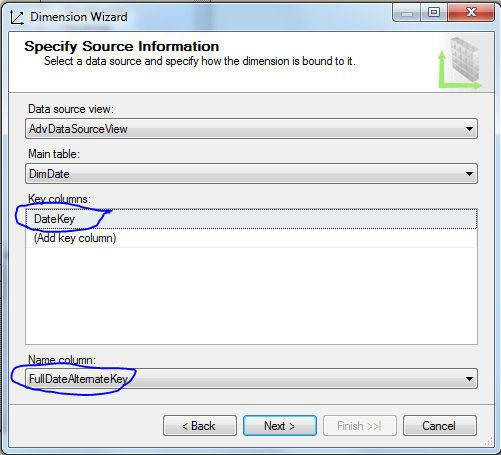
Select to create New Dimension. Click Next

[](http://www.netwoven.com/wp-content/uploads/2014/06/s14-1.png)

Select “Use an existing table” radio button and click Next

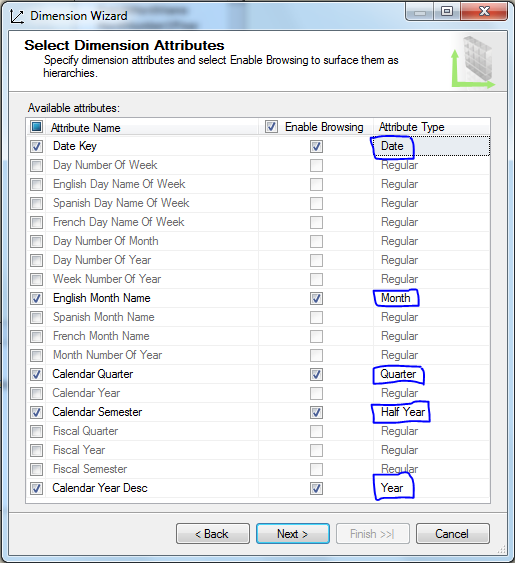
[](http://www.netwoven.com/wp-content/uploads/2014/06/s15-1.png)

Select “DimDate” in Main Table.Select “DateKey” as Key column and “FullDateAlternetKey” as Name column. Click Next

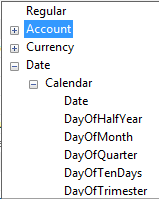
[](http://www.netwoven.com/wp-content/uploads/2014/06/s16-1.png)

Select the column name which will appear in the cube dimension

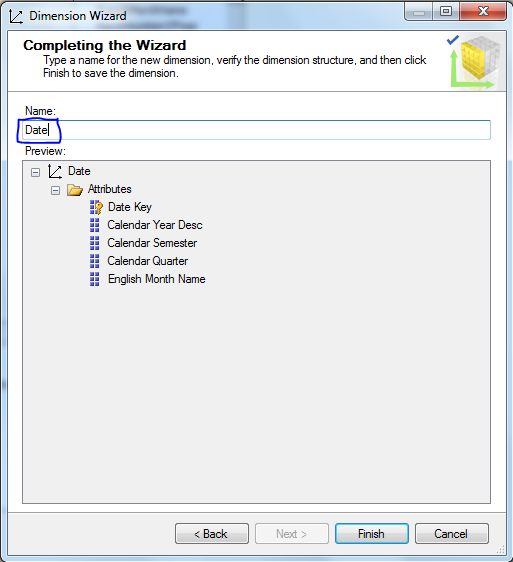
Change the attribute for Year, Semester, Quarter and Month from regular to specific.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s17-1.png)

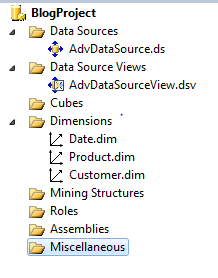
Click on Attribute Type to get the list of all attribute under the calendar

[](http://www.netwoven.com/wp-content/uploads/2014/06/s18-1.png)

Type a name of the New Dimension and Click on Finish Button to Create the Date Dimension

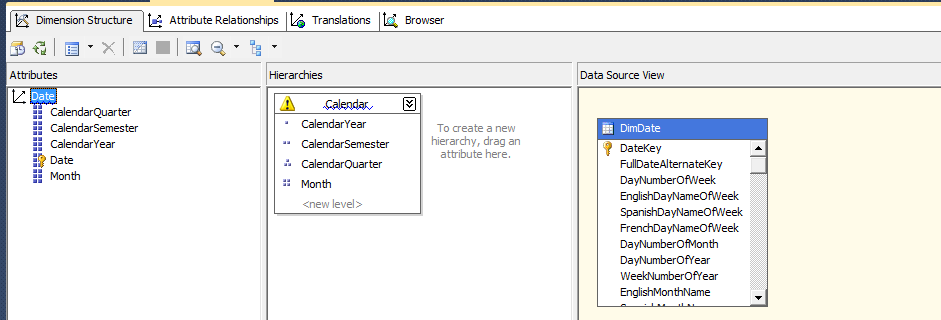
[](http://www.netwoven.com/wp-content/uploads/2014/06/s19-1.png)

Next is to create the Product and Customer dimension with the above mentioned steps.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s20-1.png)

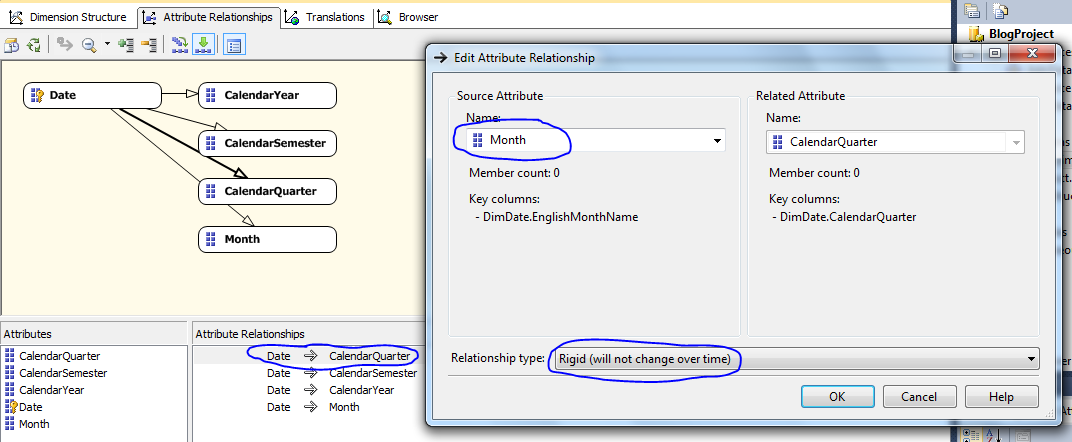
**Create Hierarchies**

In Dimension structure Tab sequentially drag and drop “CalendarYear, CalendarSemester, CalendarQuarter, Month and Date” to Hierarchies.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s21-1.png)

**Create Attribute Relationships**

Go to attribute relationship tab. Select and right click on “Date -> CalendarQuarter”. Change the Name to Month in Source Attribute and Change the Relationship Type to Rigid and Click on Ok button.

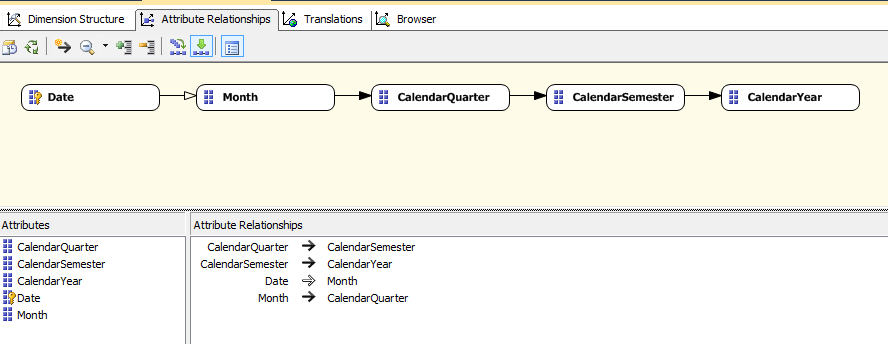
[](http://www.netwoven.com/wp-content/uploads/2014/06/s22-1.png)

Again follow the abovementioned steps for CalendarSemester and CalendarYear as mentioned below:

Select and right click on “Date -> CalendarSemester”. Change the Name to CalendarQuarter in Source Attribute and Change the Relationship Type to Rigid and Click on Ok button.

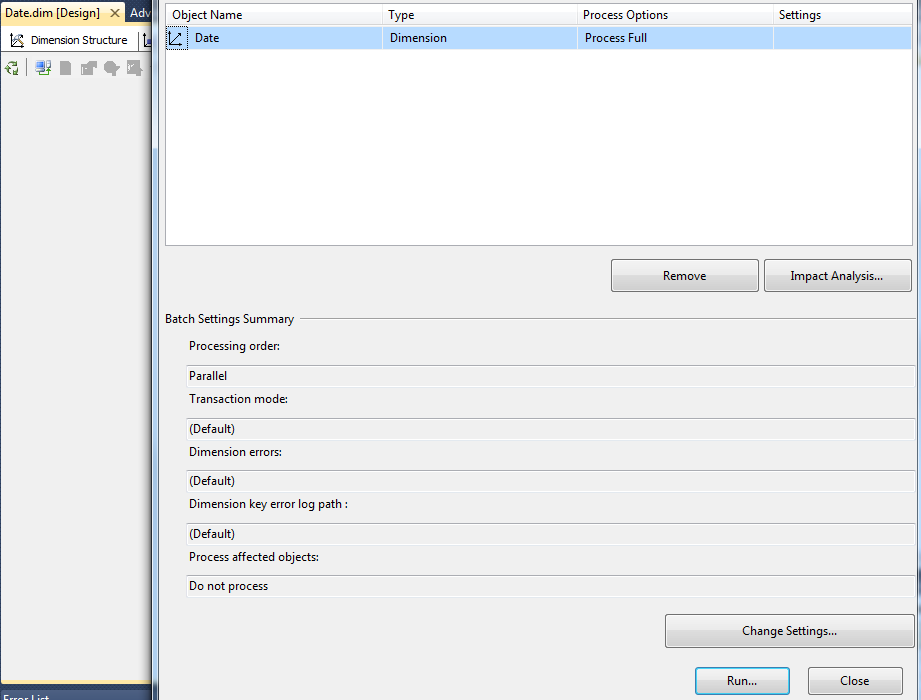
Select and right click on “Date -> CalendarYear”. Change the Name to CalendarSemester in Source Attribute and Change the Relationship Type to Rigid and Click on Ok button.

The final hierarchy will look like the following…

[](http://www.netwoven.com/wp-content/uploads/2014/06/s23-1.png)

**View Data in Browser**

Go to Browser Tab and Click on Process. The following screen will appear. Click the Run button to process dimension data.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s24-1.png)

**Create Cube**

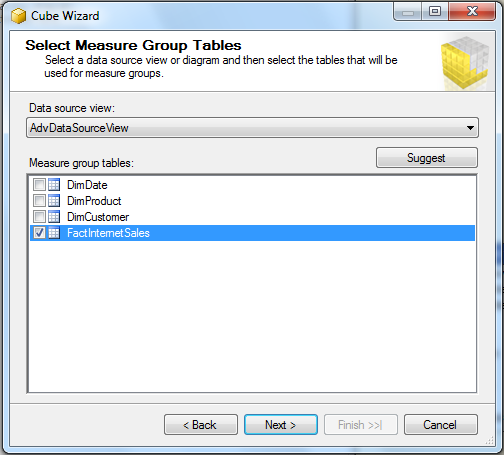
Select and right click on cube to create New Cube. Click Next…

[](http://www.netwoven.com/wp-content/uploads/2014/06/s25-1.png)

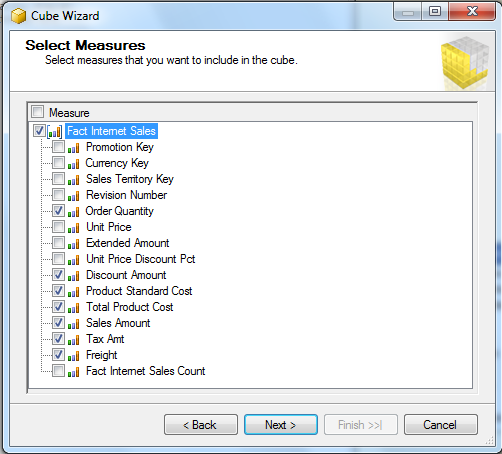
Click on “Use existing tables” radio button and Click Next

[](http://www.netwoven.com/wp-content/uploads/2014/06/s26-1.png)

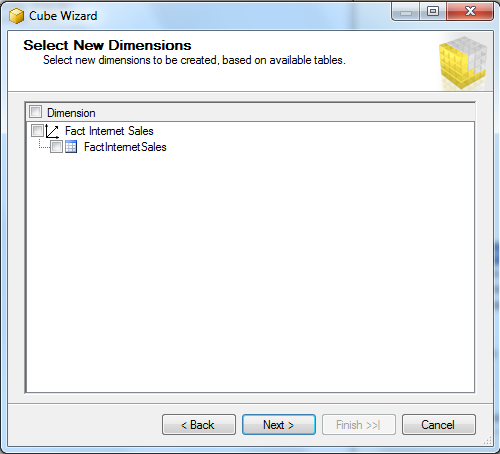
Select the check box where fact tables appear and uncheck all the dimension check box and Click Next

[](http://www.netwoven.com/wp-content/uploads/2014/06/s27-1.png)

Select the measure field of the fact table and Click next…

[](http://www.netwoven.com/wp-content/uploads/2014/06/s28-1.png)

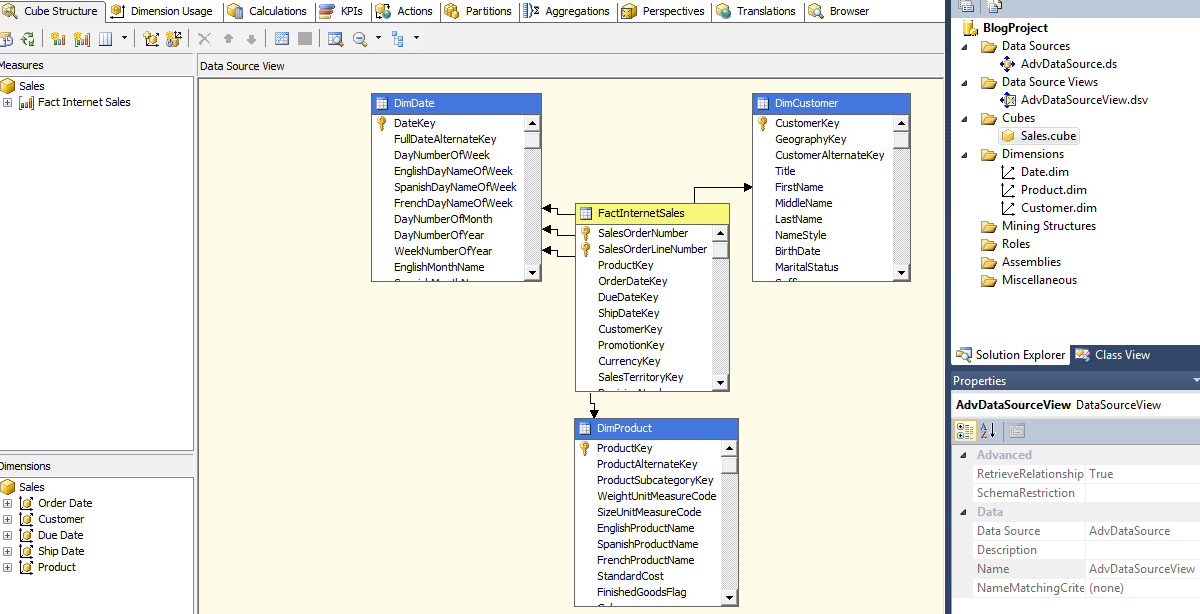
Uncheck the Dimension and click Next

[](http://www.netwoven.com/wp-content/uploads/2014/06/s29-1.png)

Type a name of the Cube and Click on Finish button

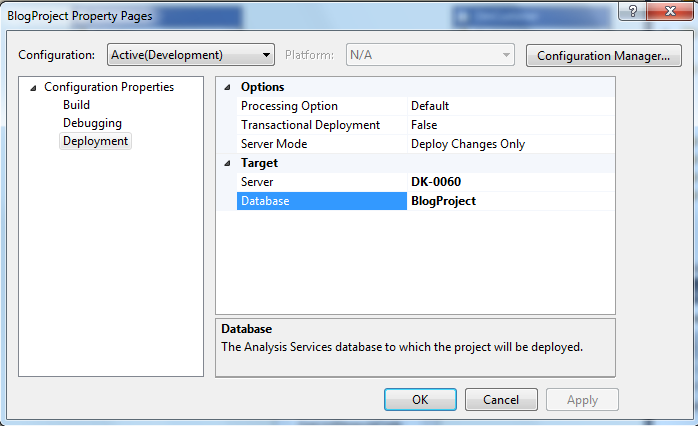
[](http://www.netwoven.com/wp-content/uploads/2014/06/s30-1.png)

The cube structure will look like this..

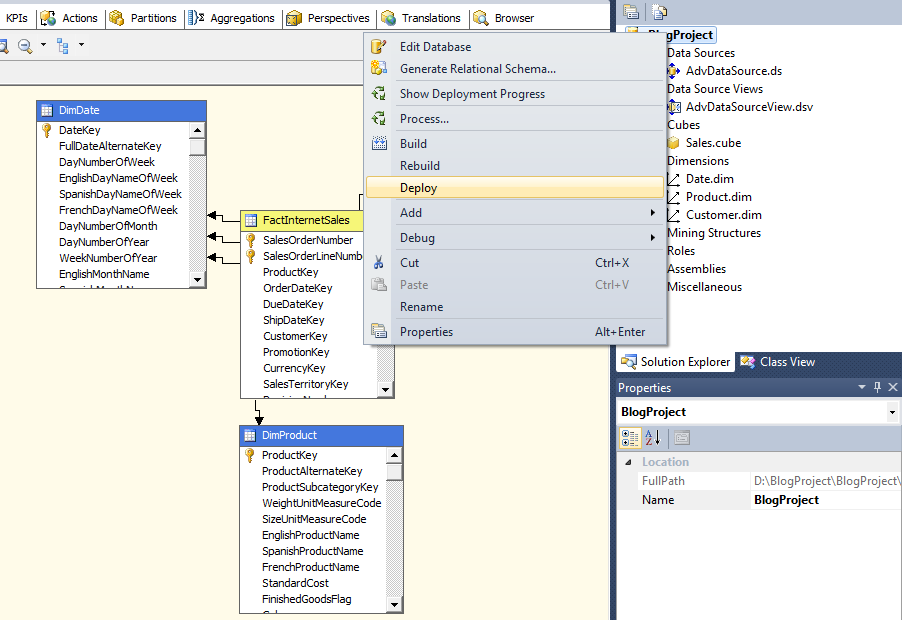
[](http://www.netwoven.com/wp-content/uploads/2014/06/s31-1.png)

**Cube Deployment**

Go to Analysis Service project and go to properties. Type the server name cube deployment and Type the name of the SSAS database. Click Ok.

[](http://www.netwoven.com/wp-content/uploads/2014/06/s32-1.png)

Right click on Analysis Services project and deploy the cube

[](http://www.netwoven.com/wp-content/uploads/2014/06/s33-1.png)