SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY Malabe



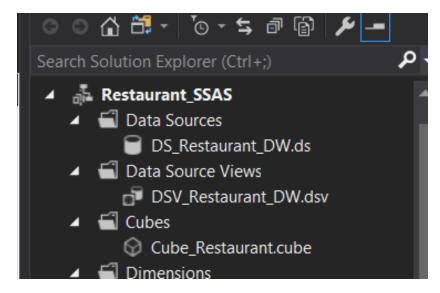
Data Warehousing And Business Intelligence IT 3021 Assignment 02

Name : Dewmini P.W.K

Student IT NO: IT 20476212

Data Source

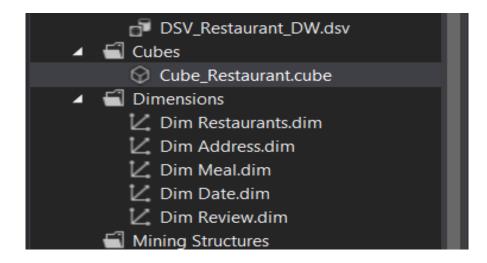
For this purpose use Restaurant_DataWarehousing as Data warehouse which implemented in last Assignment.

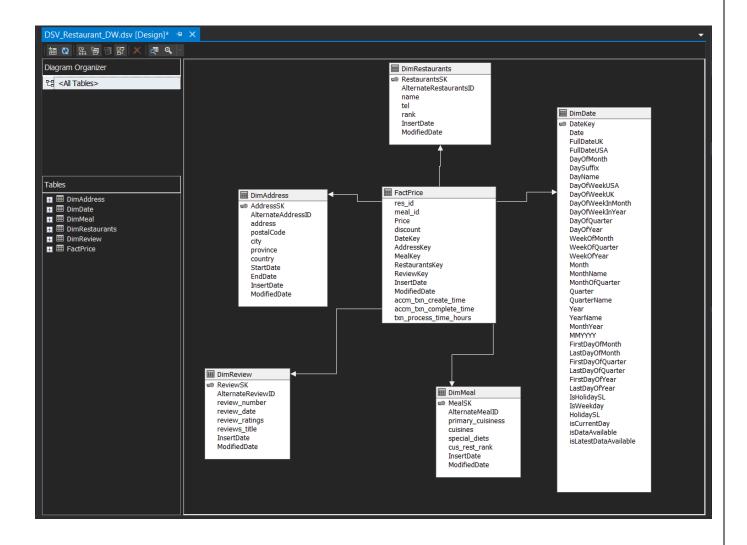


The data set follows a Star Schema and following figure shows the created data source view.

SSAS Cube

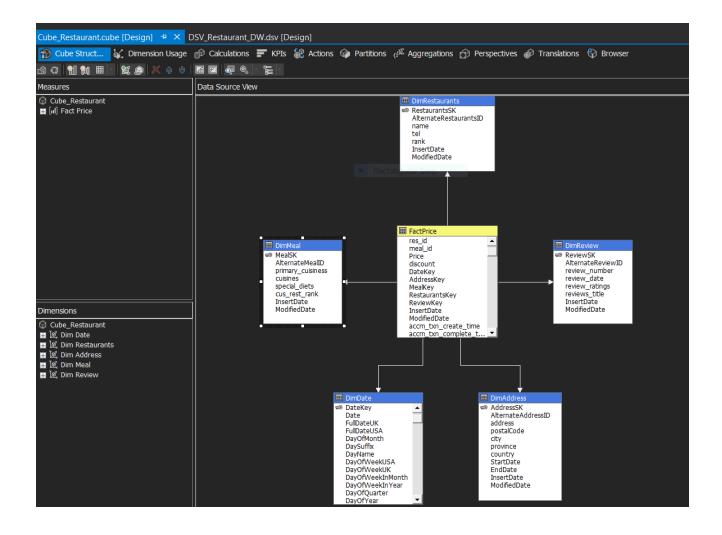
In here first create data source view using previous implemented data dimensions and fact table.





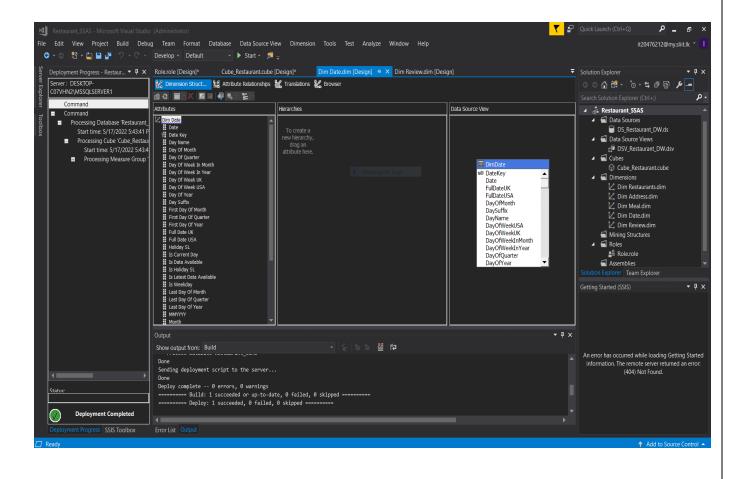
Then create Data Cube,

In here I choose Fact Price as measure group, dimDate, dimRestaurants, dimReview, dimMeal and dimAddress as dimensions.

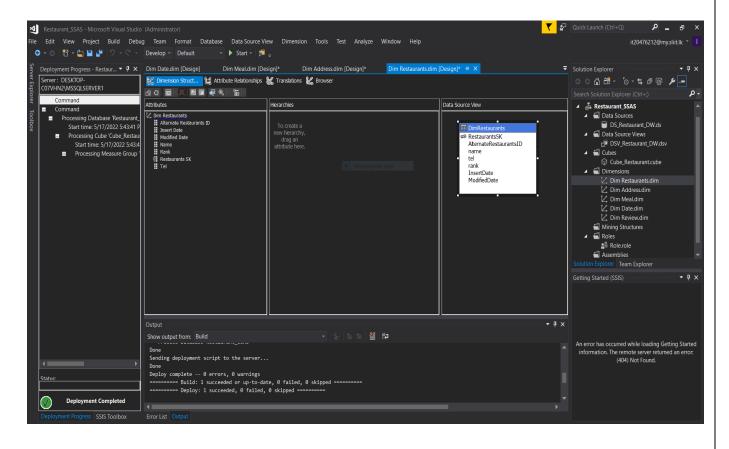


After that configure all the dimension with proper way.

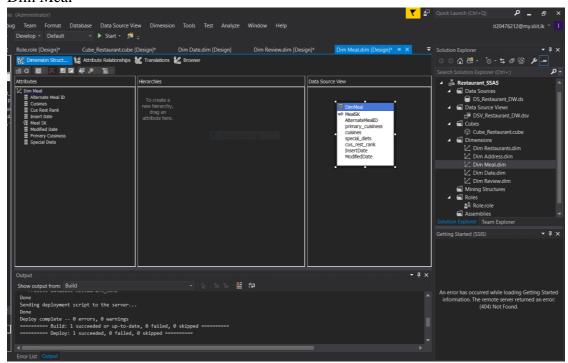
DimDate



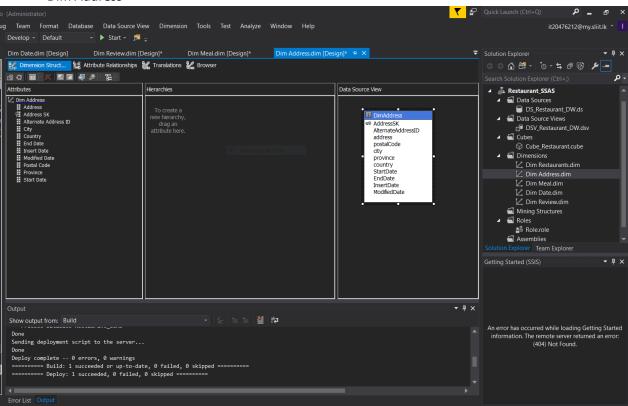
• Dim Restaurants



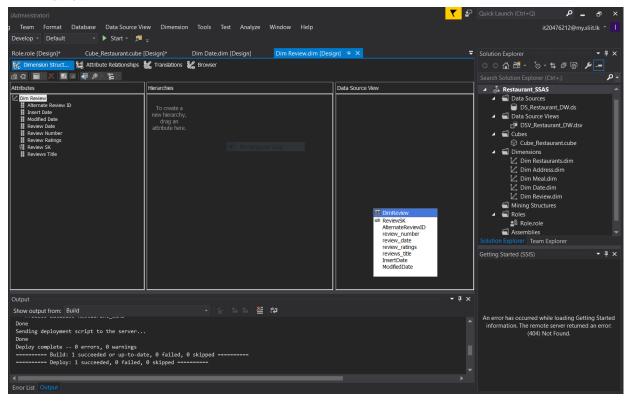
• Dim Meal



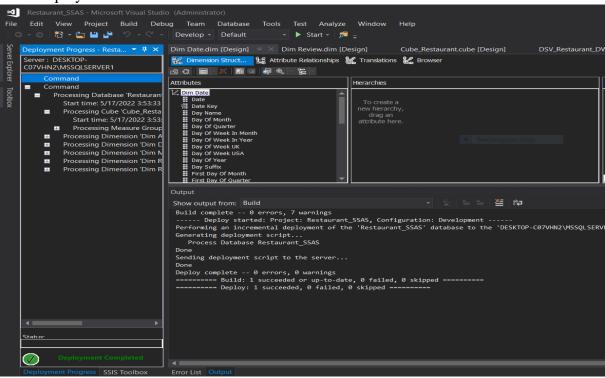
• Dim Address



Dim Review

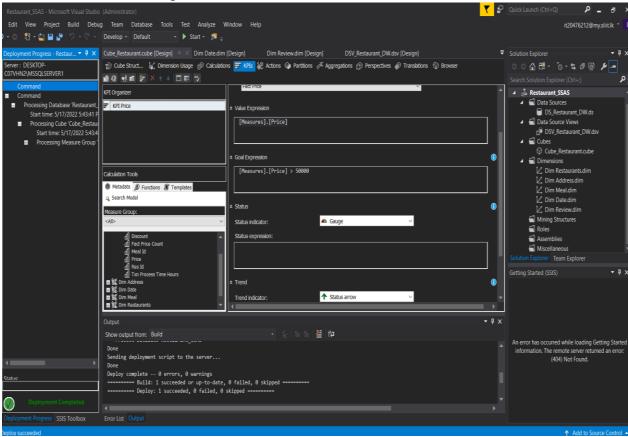


Then Deploy the Cube.

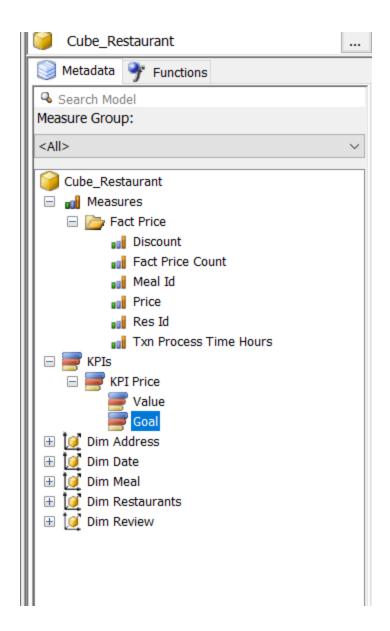


Create KPI

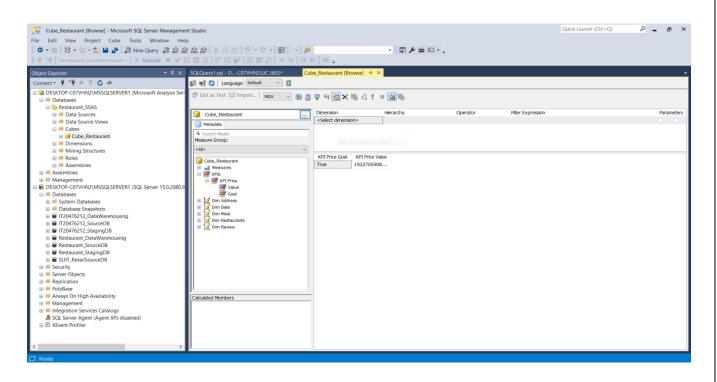
KPI Use for monitoring measures.

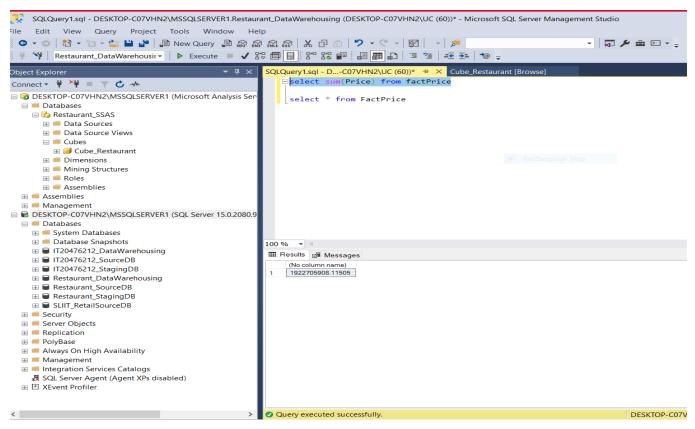


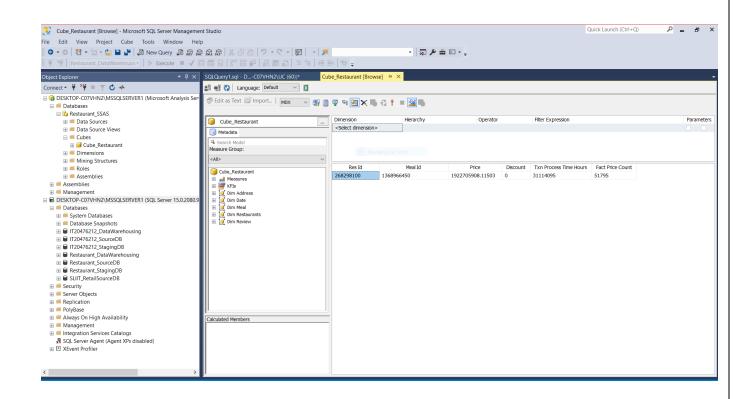
Created KPIs were demonstrated below.



After deploying of this Cube look like this,



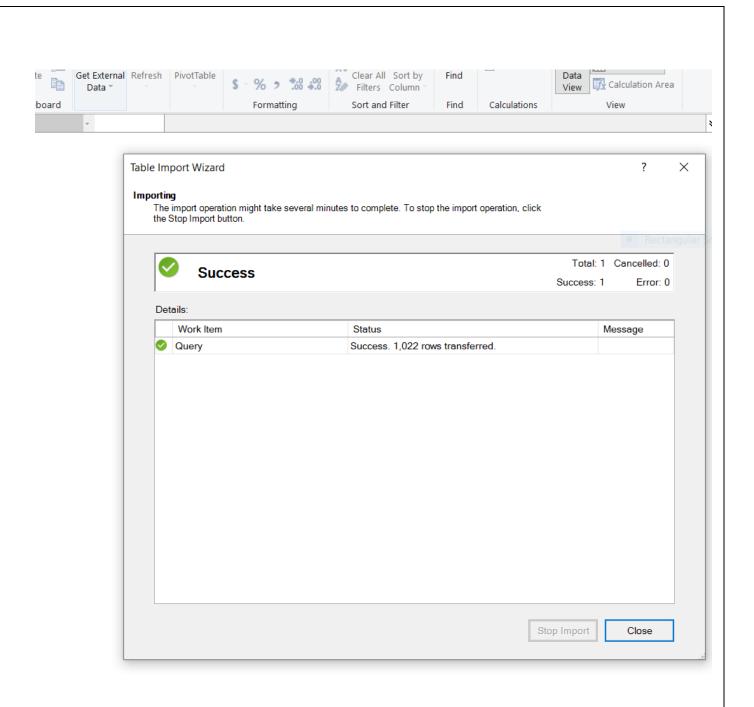




OLAP Operation

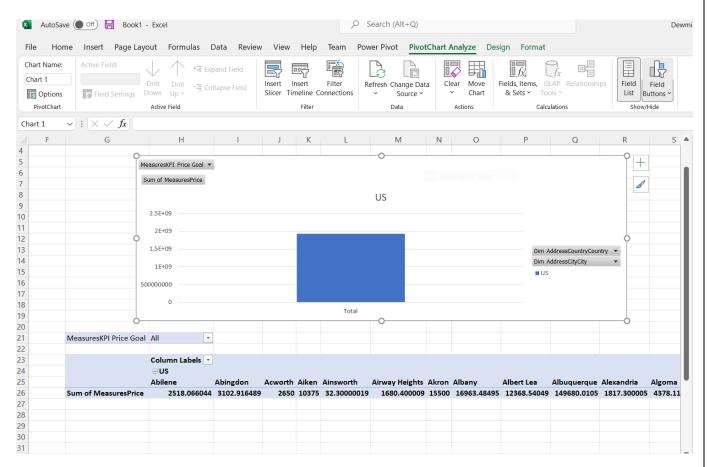
Using Excel 2016 Power Pivot we can do all OLAP operation

The SSAS cube "Restaurant_SSAS" which was created in the above step was then connected to the Excel using the MDX query.



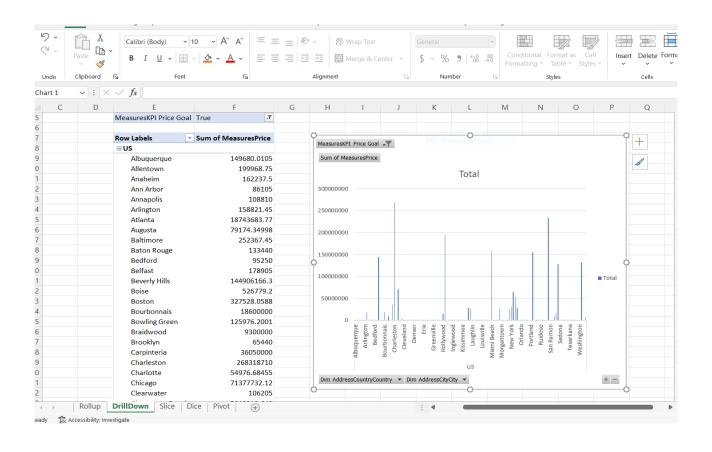
□ Roll Up

The roll-up operation performs aggregation on a data cube, either by climbing up a hierarchy or by climbing down a hierarchy



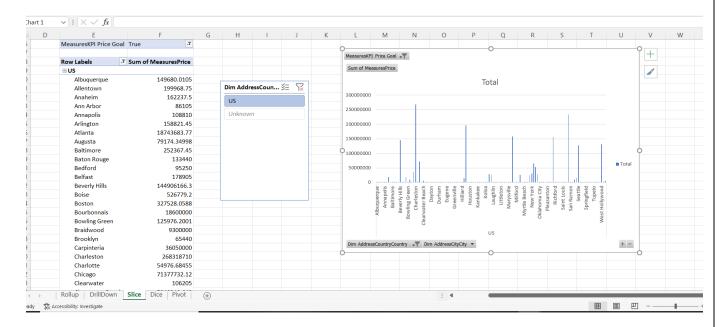
☐ Drill-Down

The Drill down operation is the reverse of roll up. It navigates from less detailed data to more detailed data.



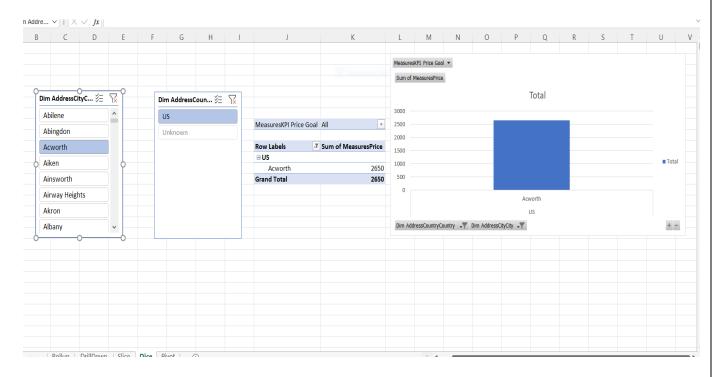
□ Slicing

Slice performs a selection on one dimension of the given cube, thus resulting in a sub cube.



☐ Dice

The dice operation defines a sub cube by performing a selection on two or more dimensions.



Pivot In pivot the data axes were rotated to provide alternative presentation to data.

