# SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY Malabe



# Data Warehousing And Business Intelligence IT 3021 Assignment 02

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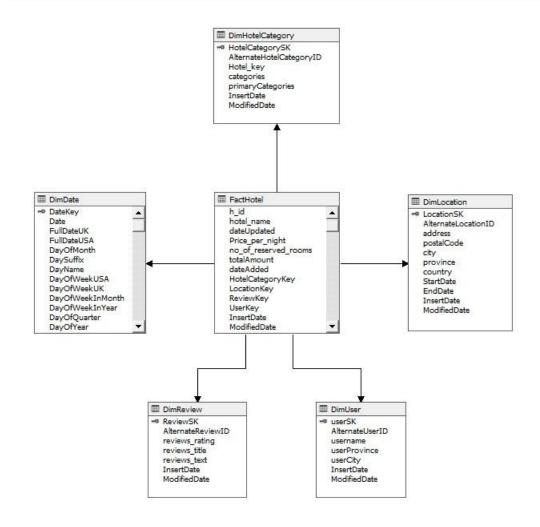
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## **Data Source**

For this purpose use IT20188818\_DW as Data warehouse which implemented in last Assignment (Assignment1).

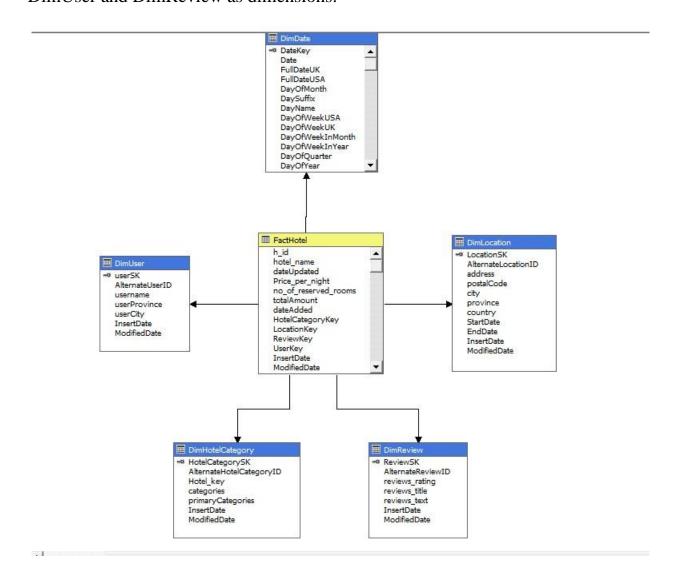
#### **SSAS Cube**

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



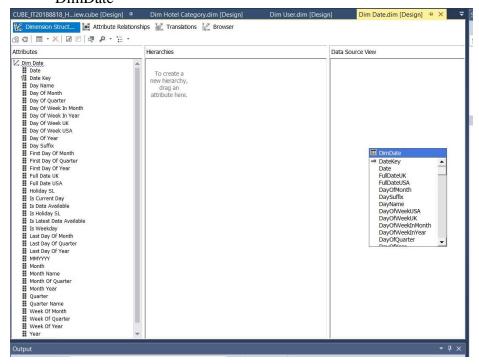
Then create Data Cube,

In here I choose FactHotel as measure group, DimDate, DimLocation, DimHotelcategory, DimUser and DimReview as dimensions.

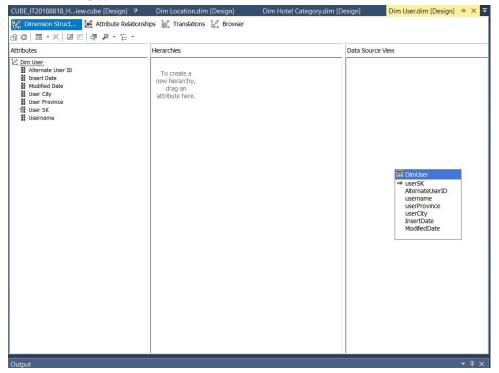


After that configure all the dimension with proper way.

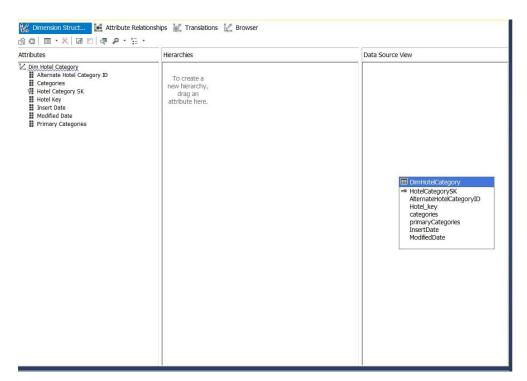
#### • DimDate



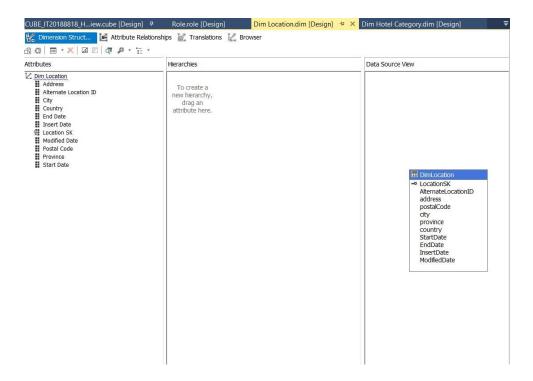
#### • DimUser



# DimHotelCategory



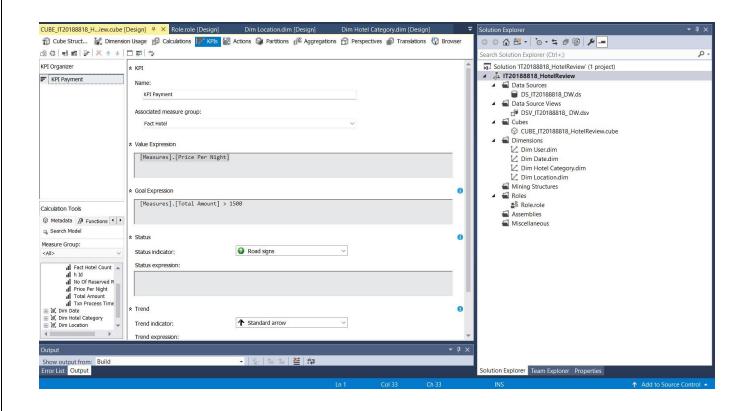
#### • DimLocation



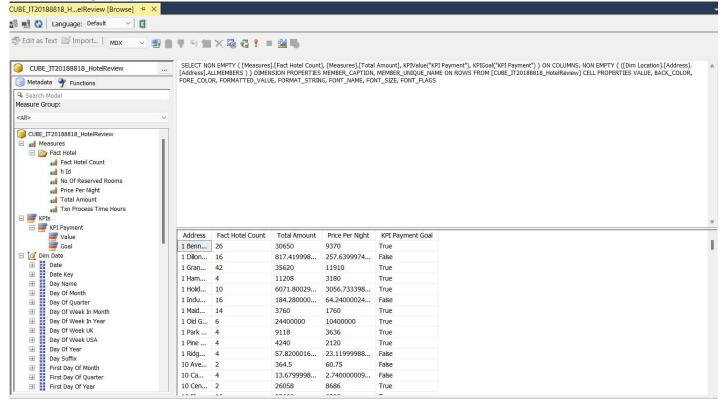
Then Deploy the Cube.

#### **Create KPI**

KPI Use for monitoring measures.



After deploying of this Cube look like this,

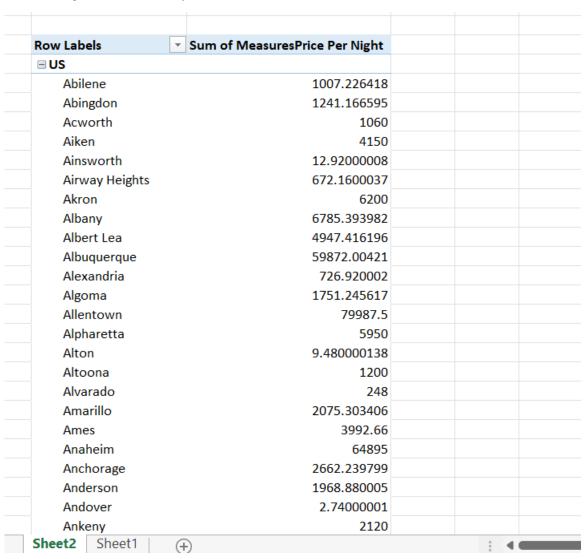


# **OLAP Operation**

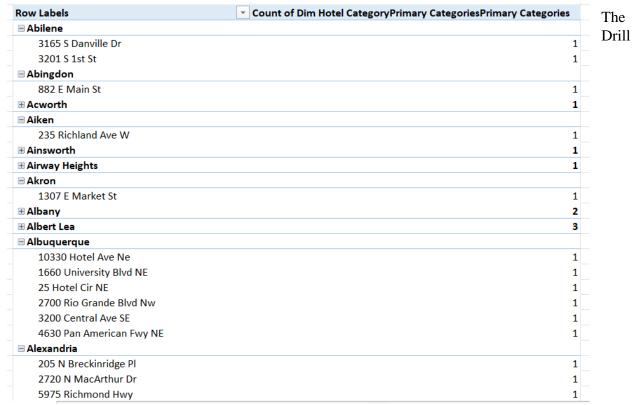
Using Excel Power Pivot, we can do all OLAP operation

# Roll Up

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



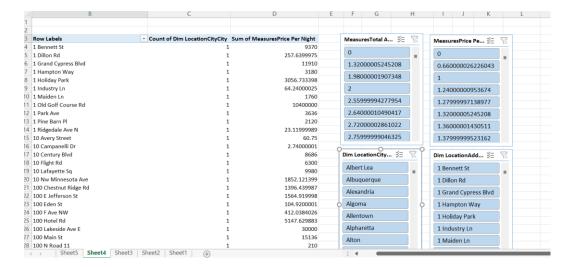
#### **Drill-Down**



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

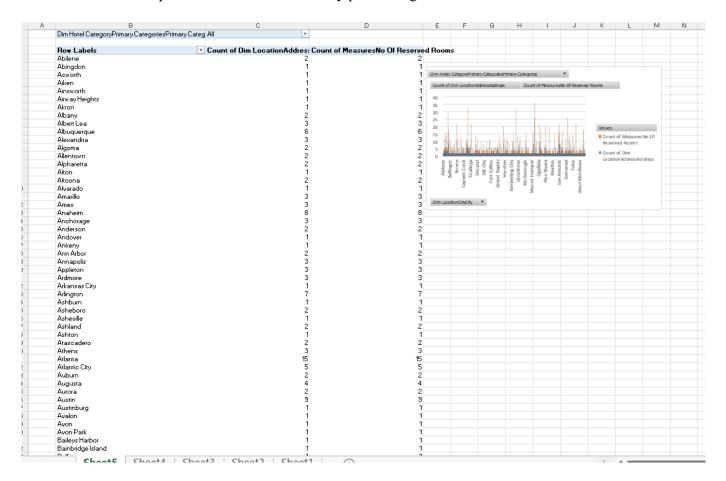
# **Slicing**

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

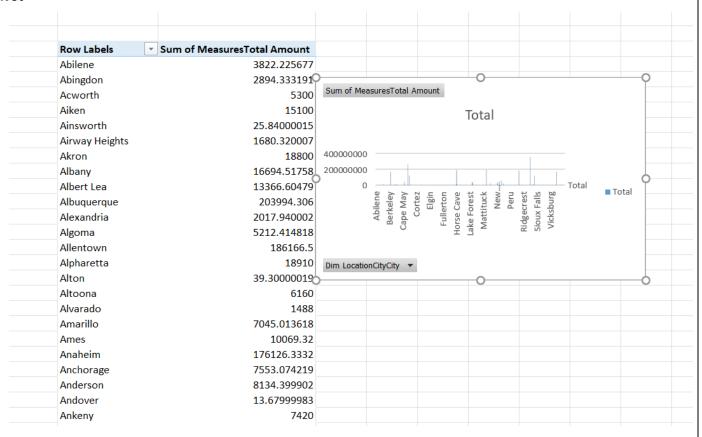


## Dice

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



#### **Pivot**

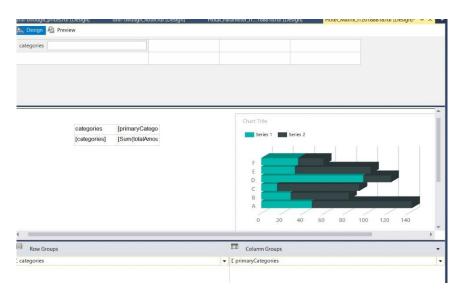


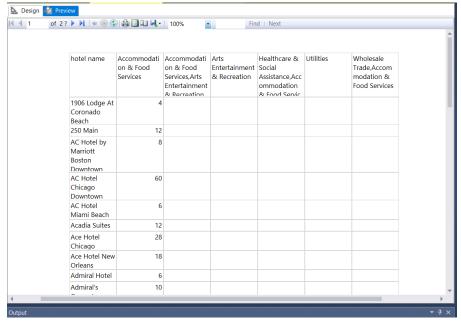
# **SSRS Reports**

## Report 01:

Report with Matrix

In here yearly Hotel report Hotel name, Primary category and Price\_Per\_Room



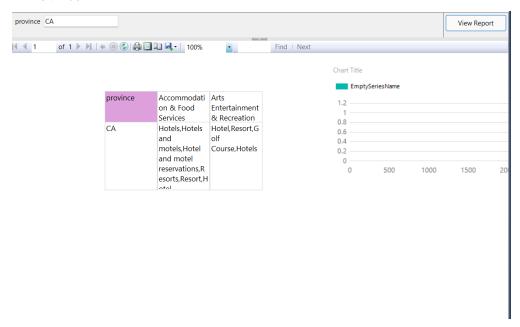


# Report 2:

Report with more than one parameter This report has

#### 3 parameters

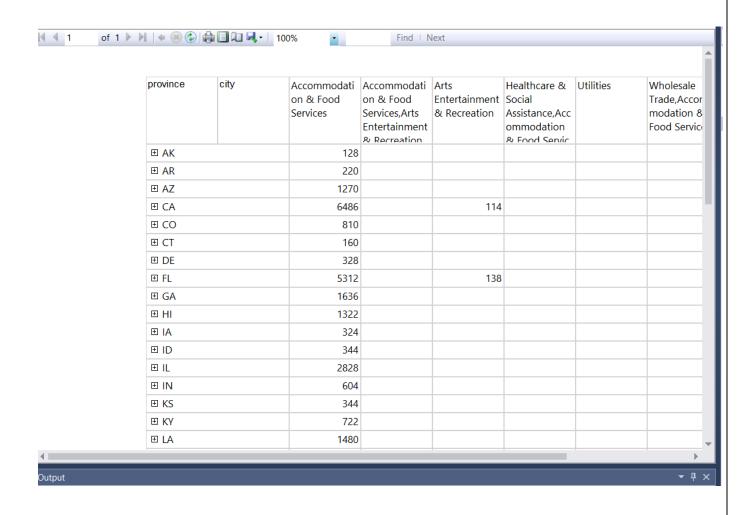
- Categories
- Primary Categories
- Province



## **Report 3:**

SSRS drill-down report

This report is yearly total price of the hotel.



Report 4:

SSRS drill-through report

In this repot link through the Hotel\_ID (h\_id)

h id	province
1	CA
2	CA
3	CA
4	MD
5	MD
6	MD
7	MD
8	MD
9	MD
10	WA
11	WA
12	WA
13	WA
14	WA
15	WA
16	MO
17	MO
18	MO
19	МО