**Sri Lanka Institute of Information Technology**



**Data Warehousing & Business Intelligence**

**Assignment 02**

**IT Number – IT20083182**

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**Batch – Year 03 Semester 01 (Y3S1.5.1 (DS))**

Contents

[01. Data Source 3](#_Toc105344096)

[02. SSAS Cube Implementation 3](#_Toc105344097)

[ *DimDate* 5](#_Toc105344098)

[ *DimUser* 5](#_Toc105344099)

[ *DimHotelCategory* 6](#_Toc105344100)

[ *DimLocation* 6](#_Toc105344101)

[03. OLAP Operation 8](#_Toc105344102)

[ Roll Up 8](#_Toc105344103)

[ *Drill-Down* 9](#_Toc105344104)

[ *Slicing* 10](#_Toc105344105)

[ Dice 10](#_Toc105344106)

[ *Pivot* 11](#_Toc105344107)

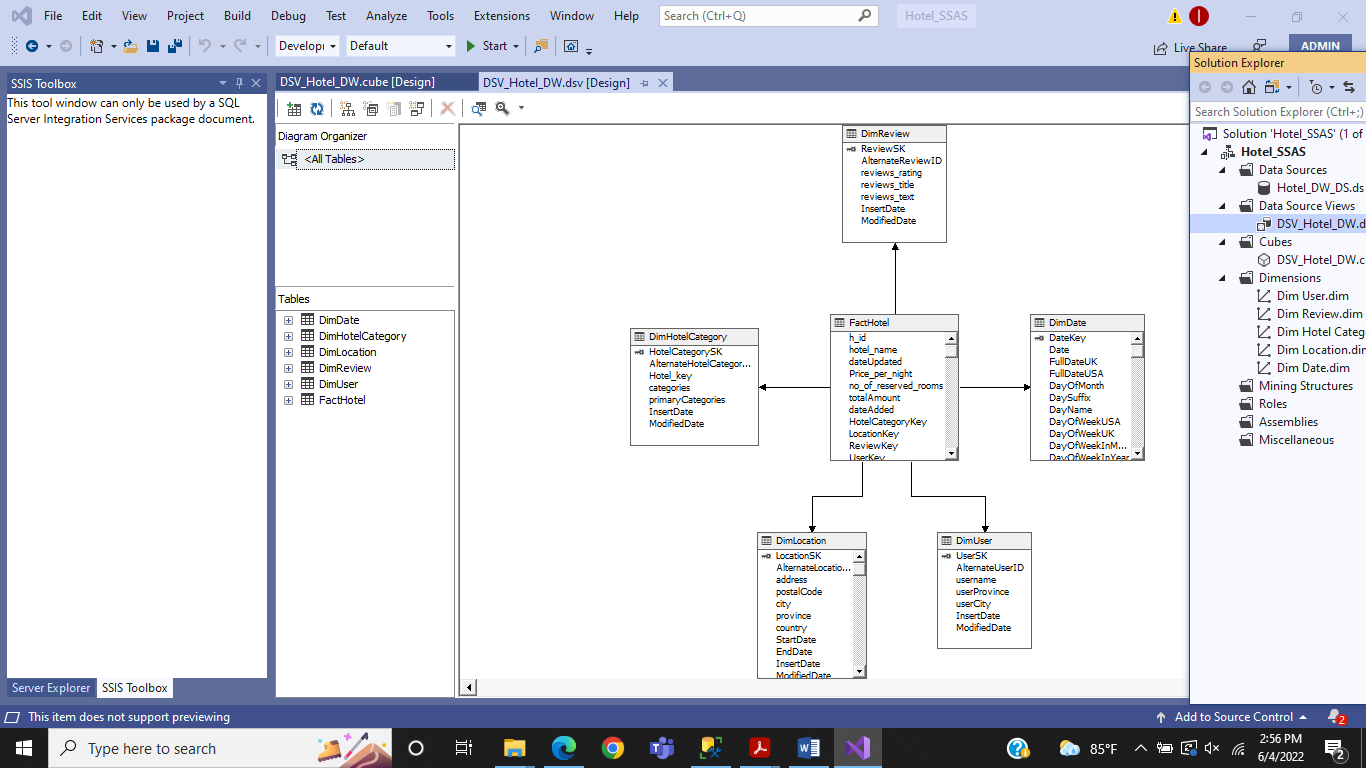
[04. SSRS Reports 12](#_Toc105344108)

## Data Source

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

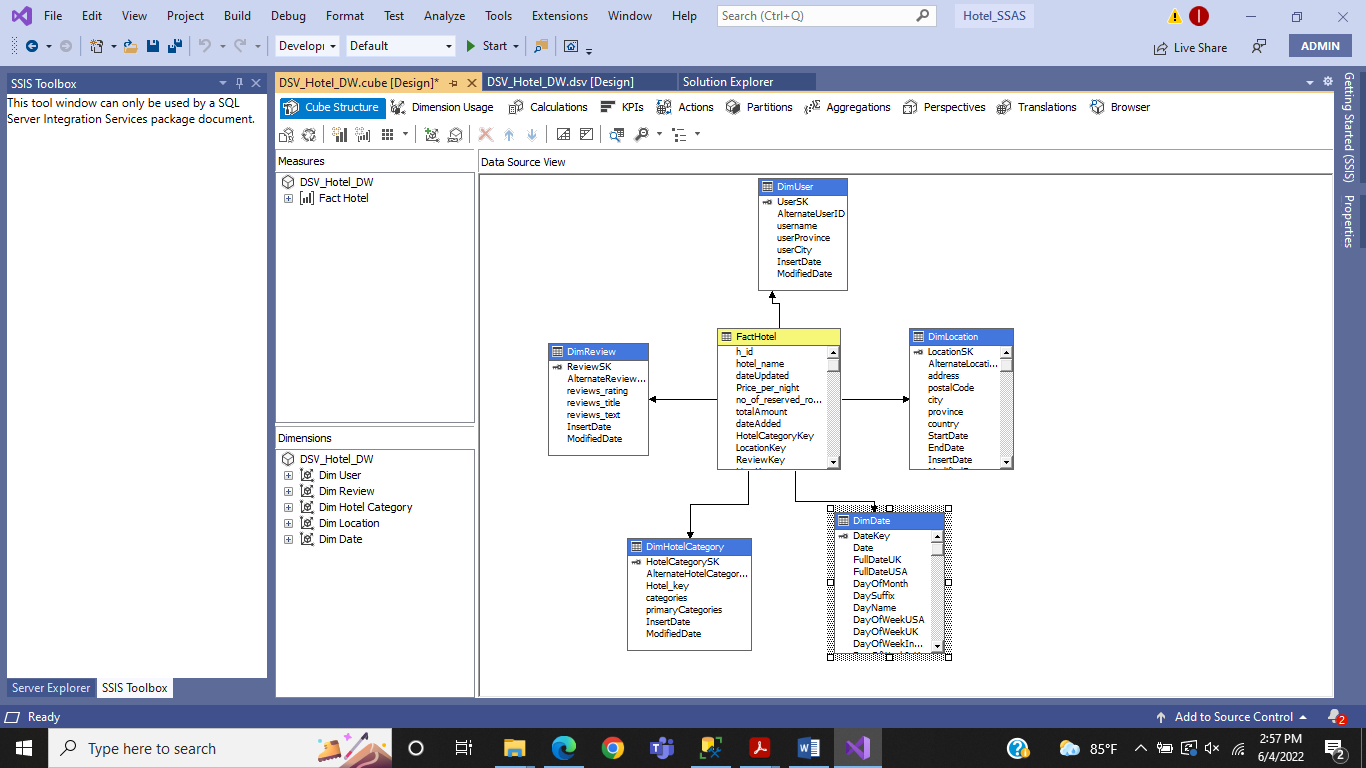
## SSAS Cube Implementation

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



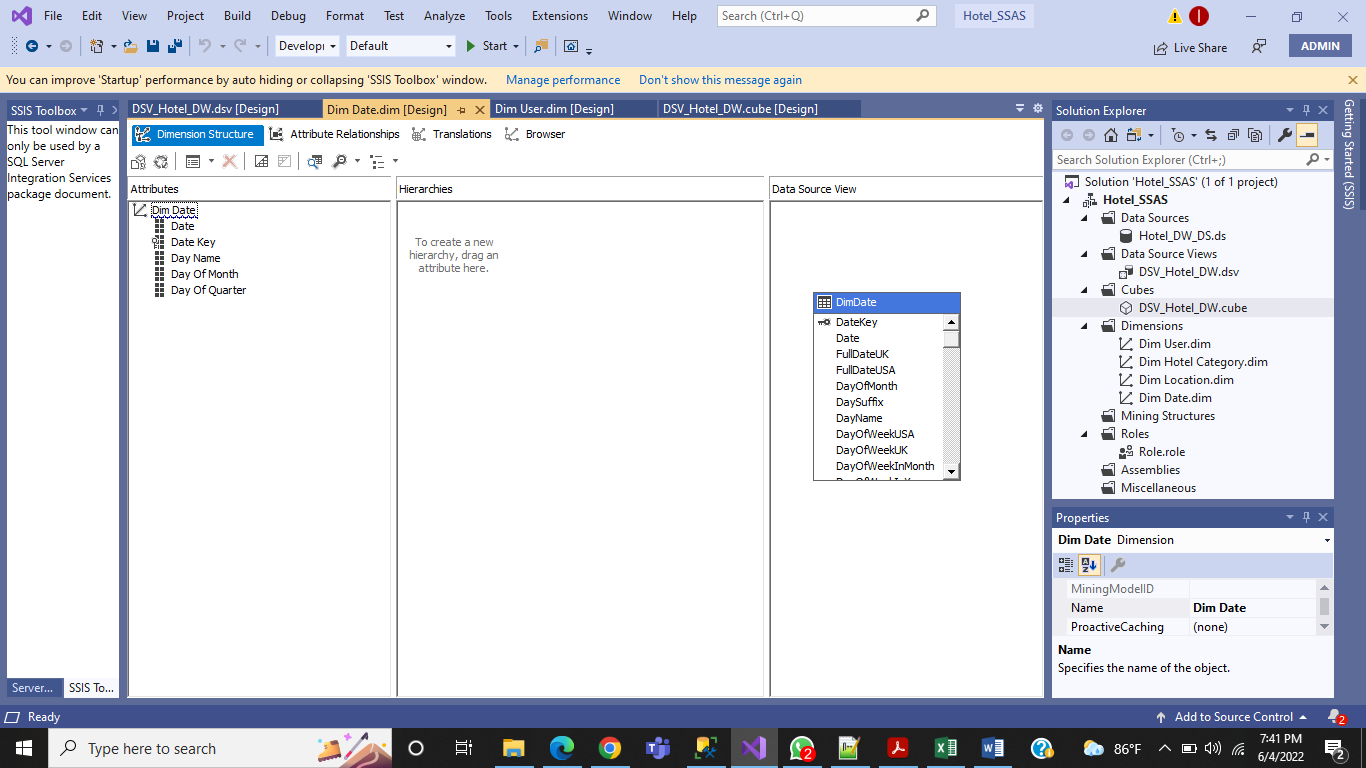
Then create Data Cube,

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

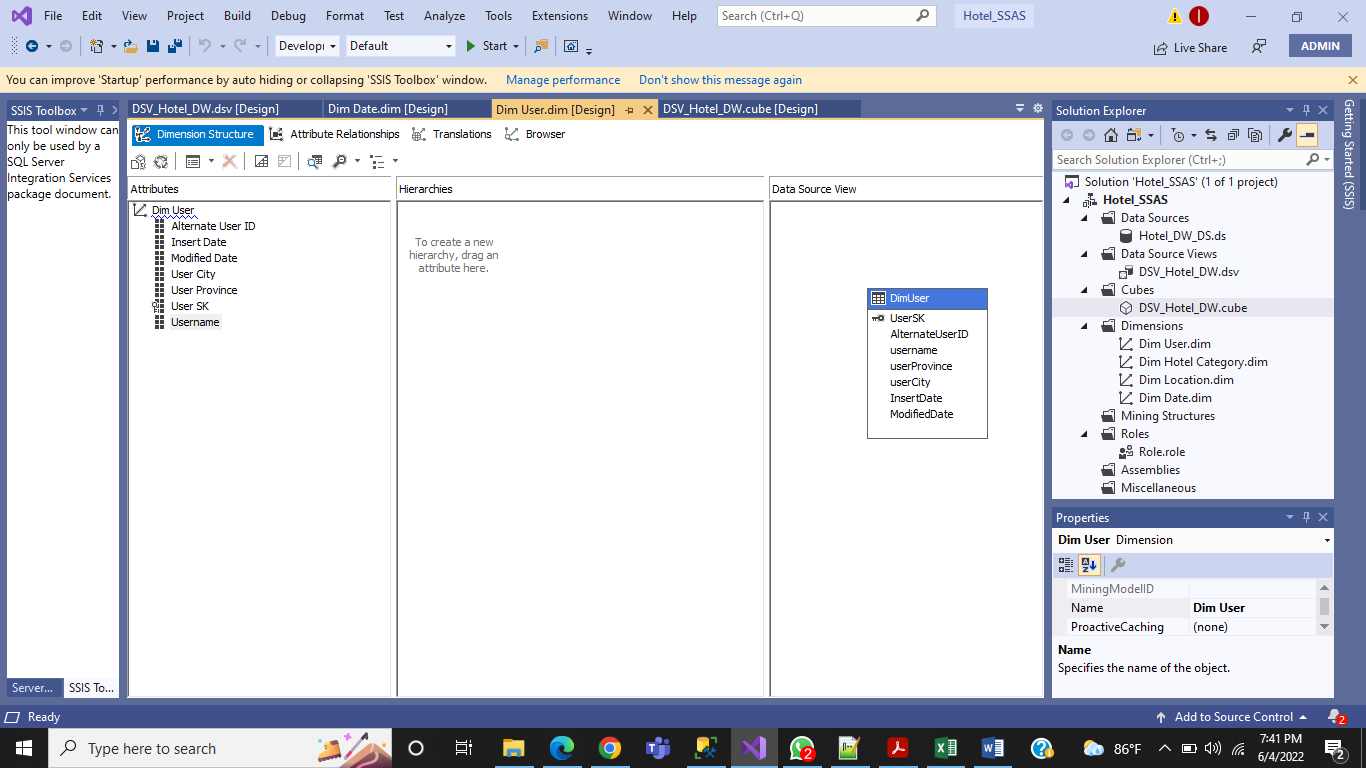


After that configure all the dimension with proper way

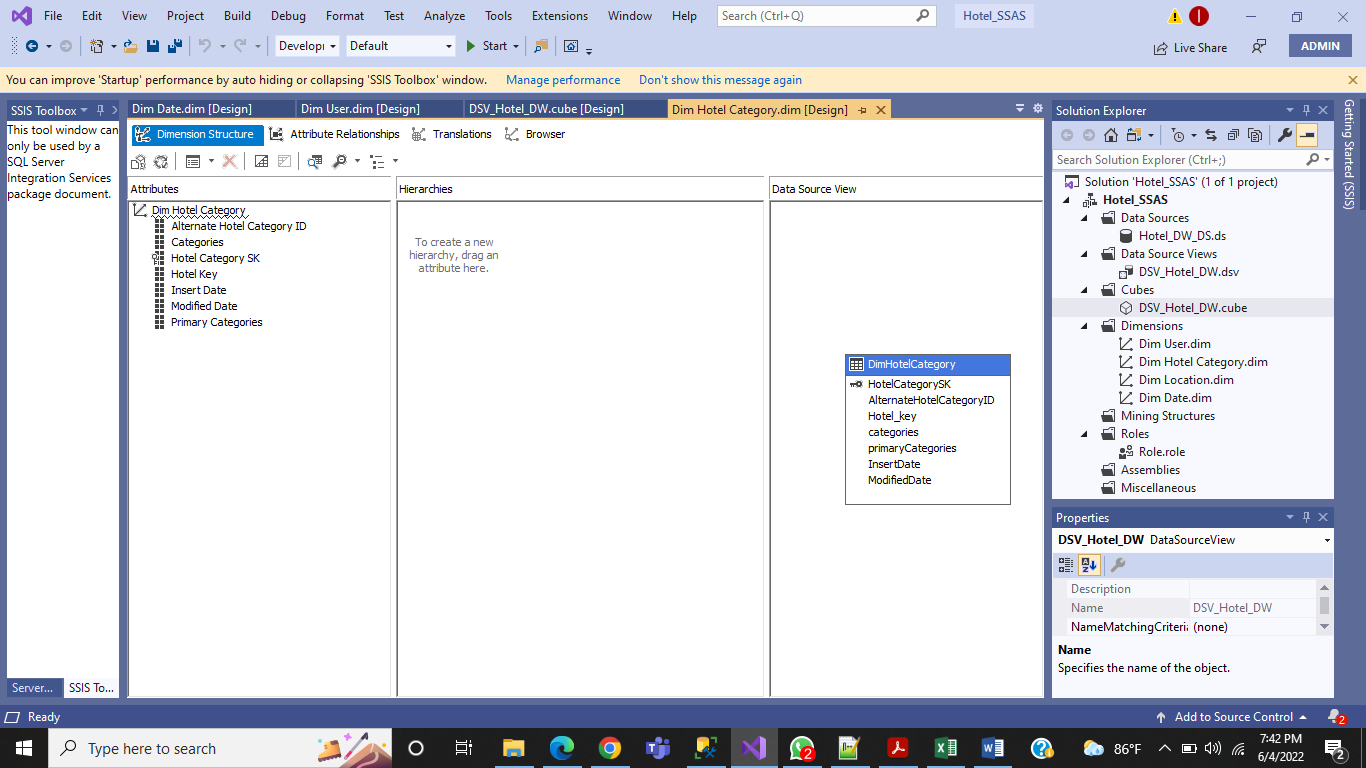
### DimDate



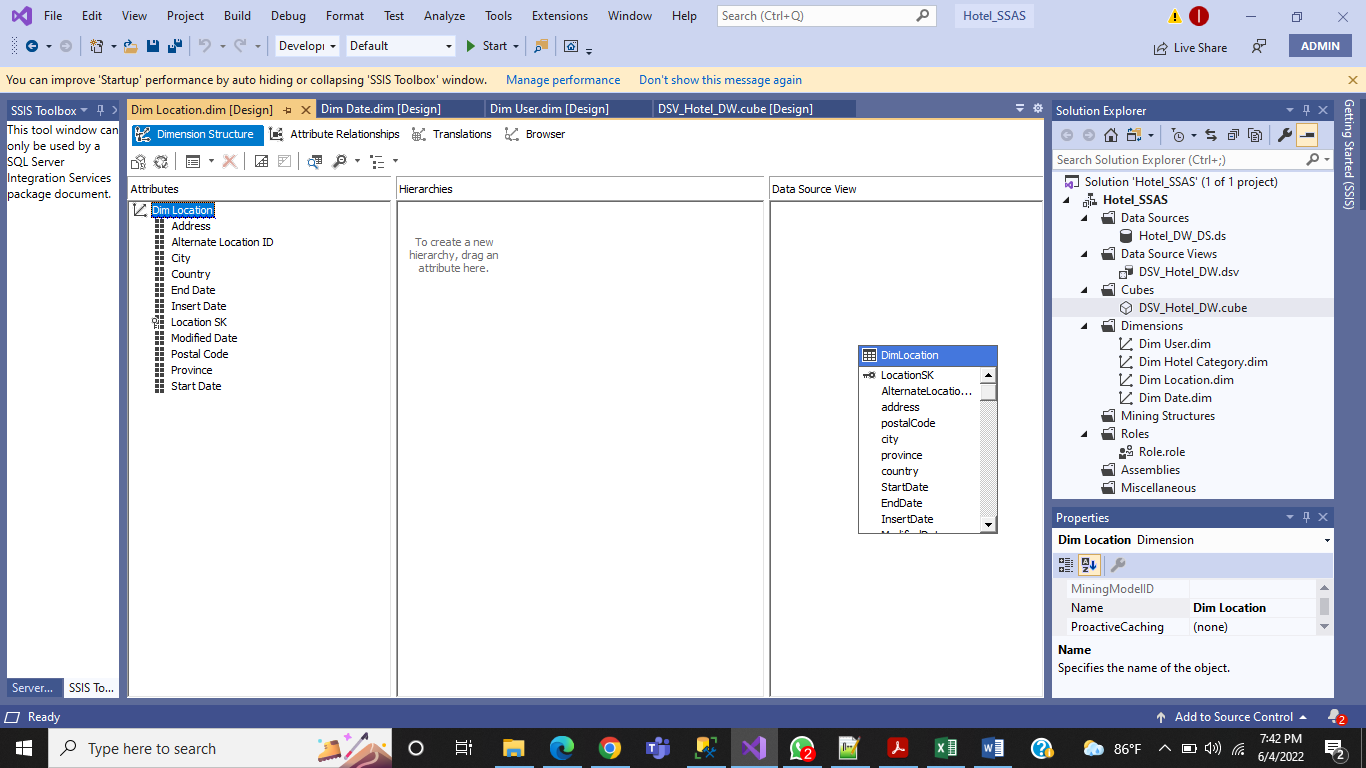
### DimUser



### DimHotelCategory

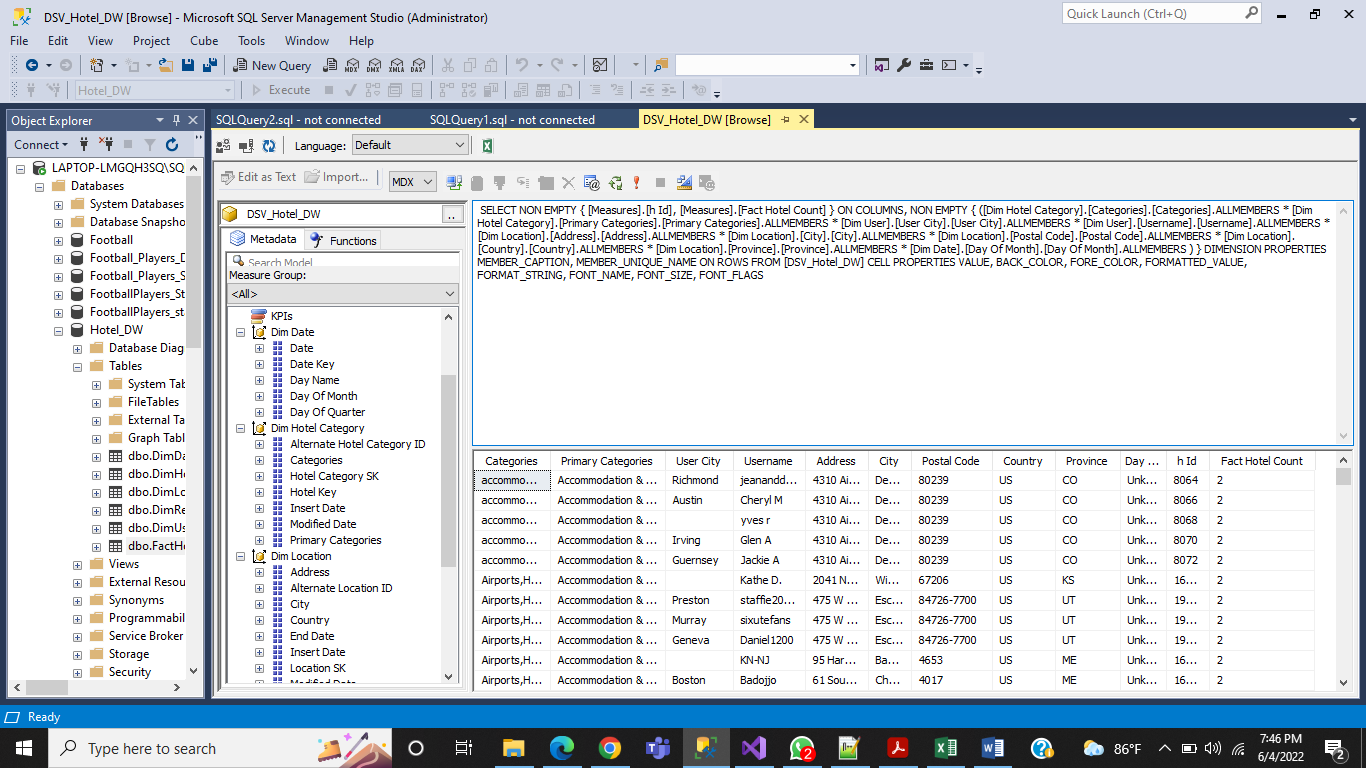


### DimLocation



Then Deploy the Cube.

After deploying of this Cube look like this,

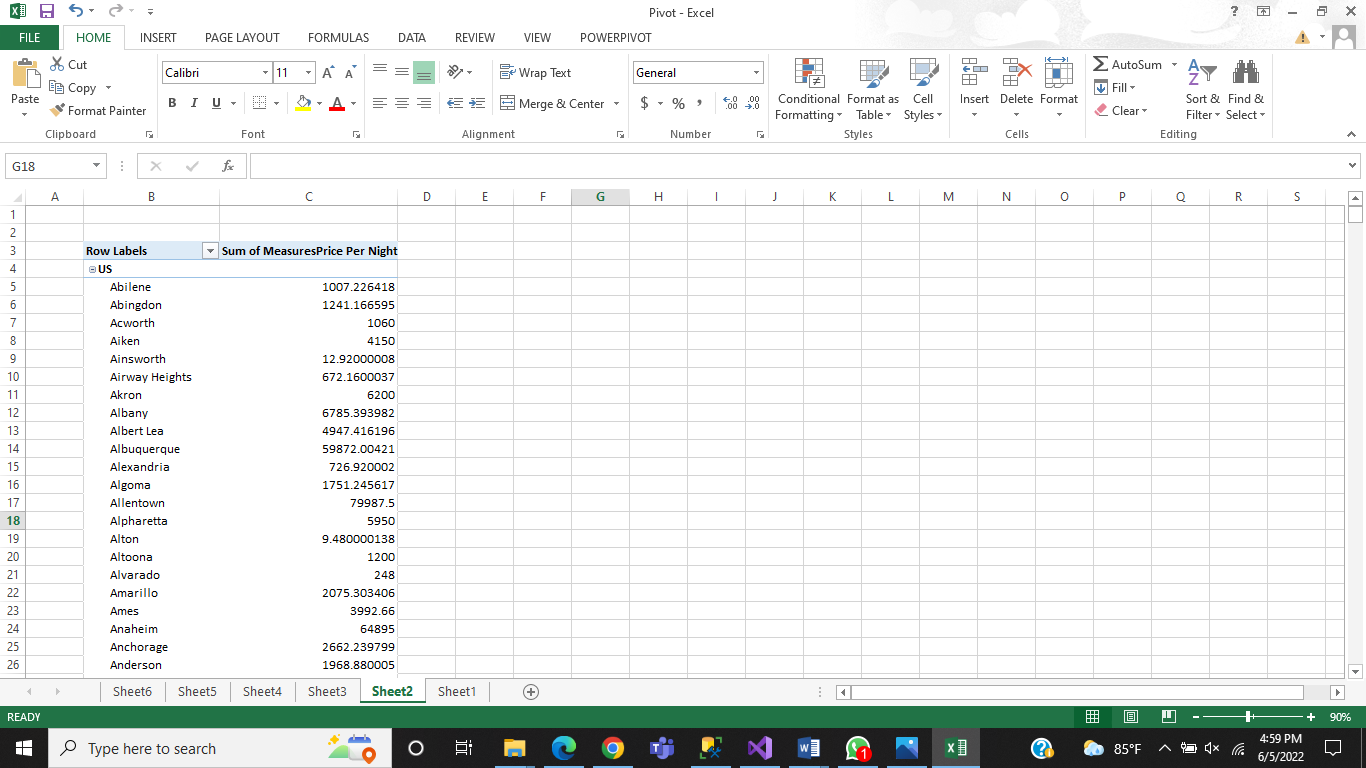


## OLAP Operation

Using Excel Power Pivot, we can do all OLAP operation

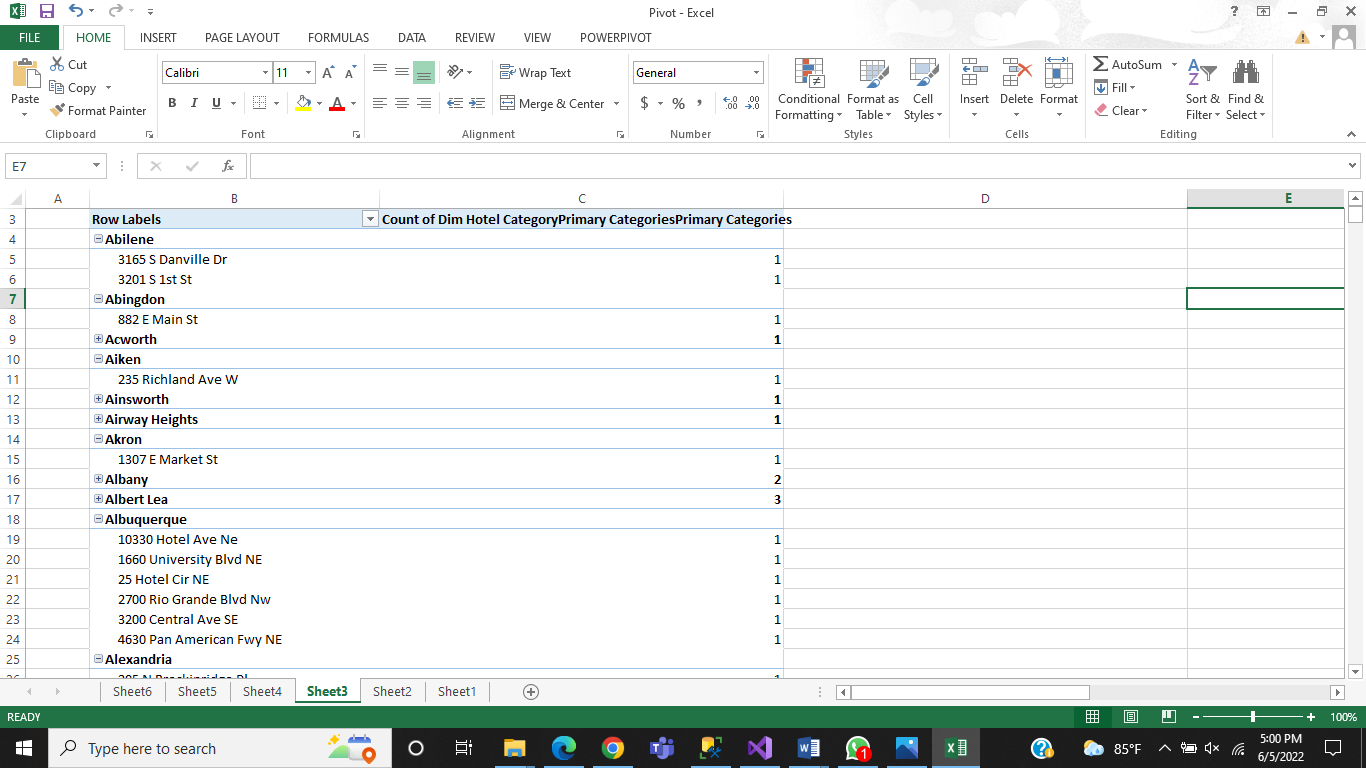
### Roll Up

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

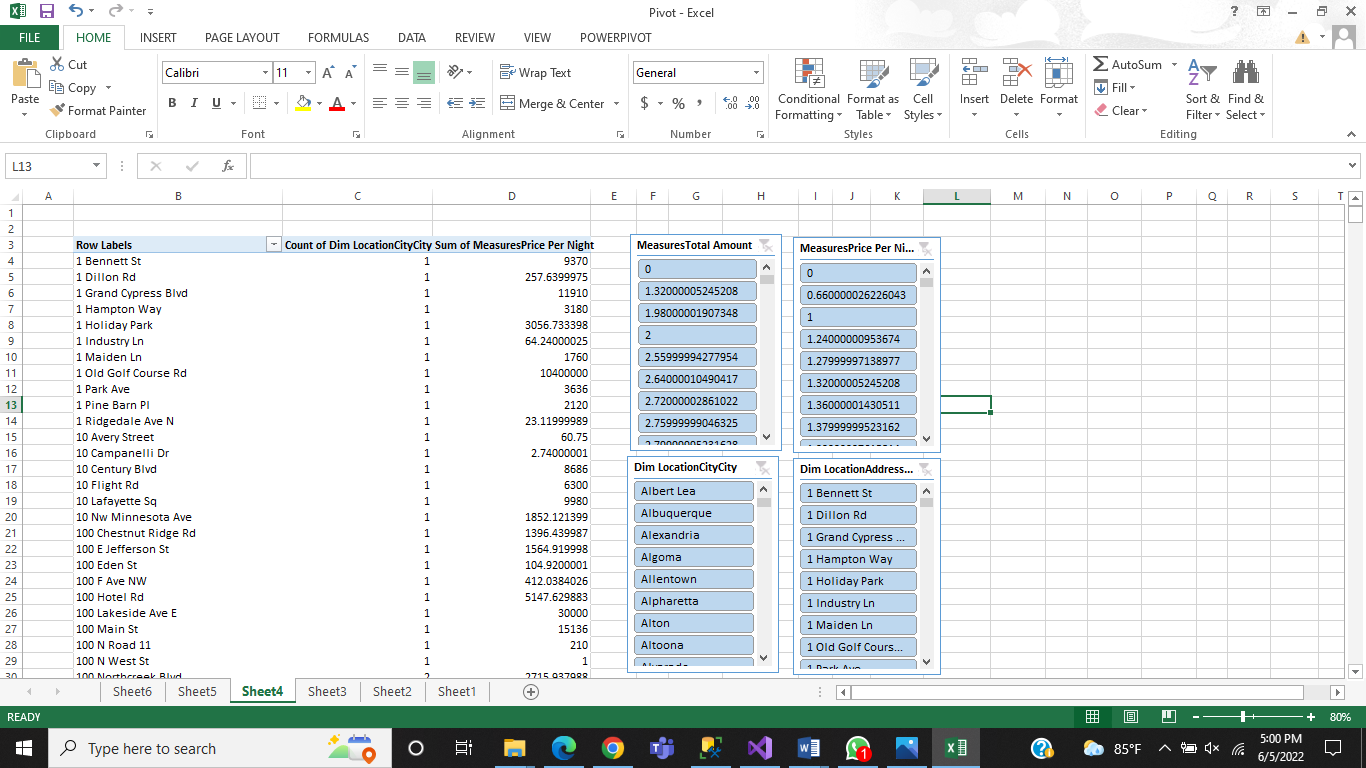


### Drill-Down

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

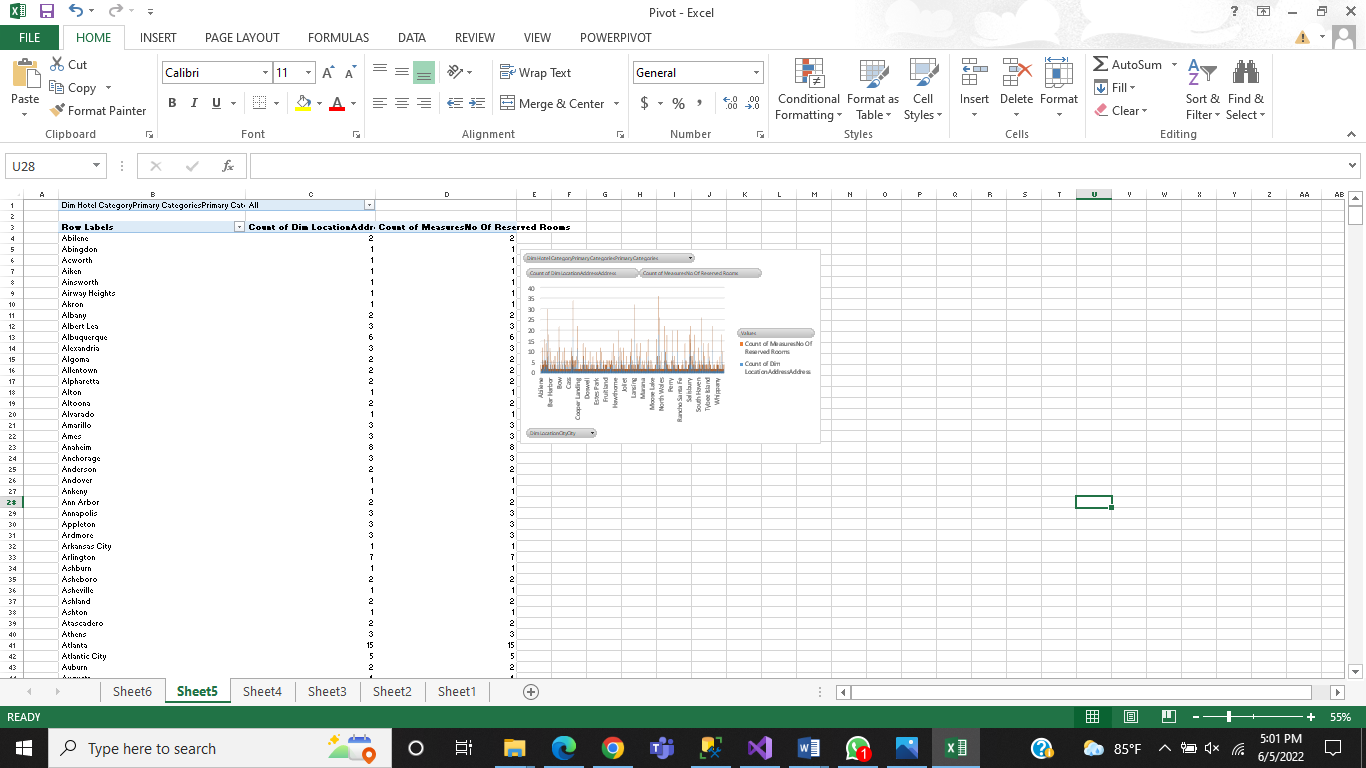


### Slicing

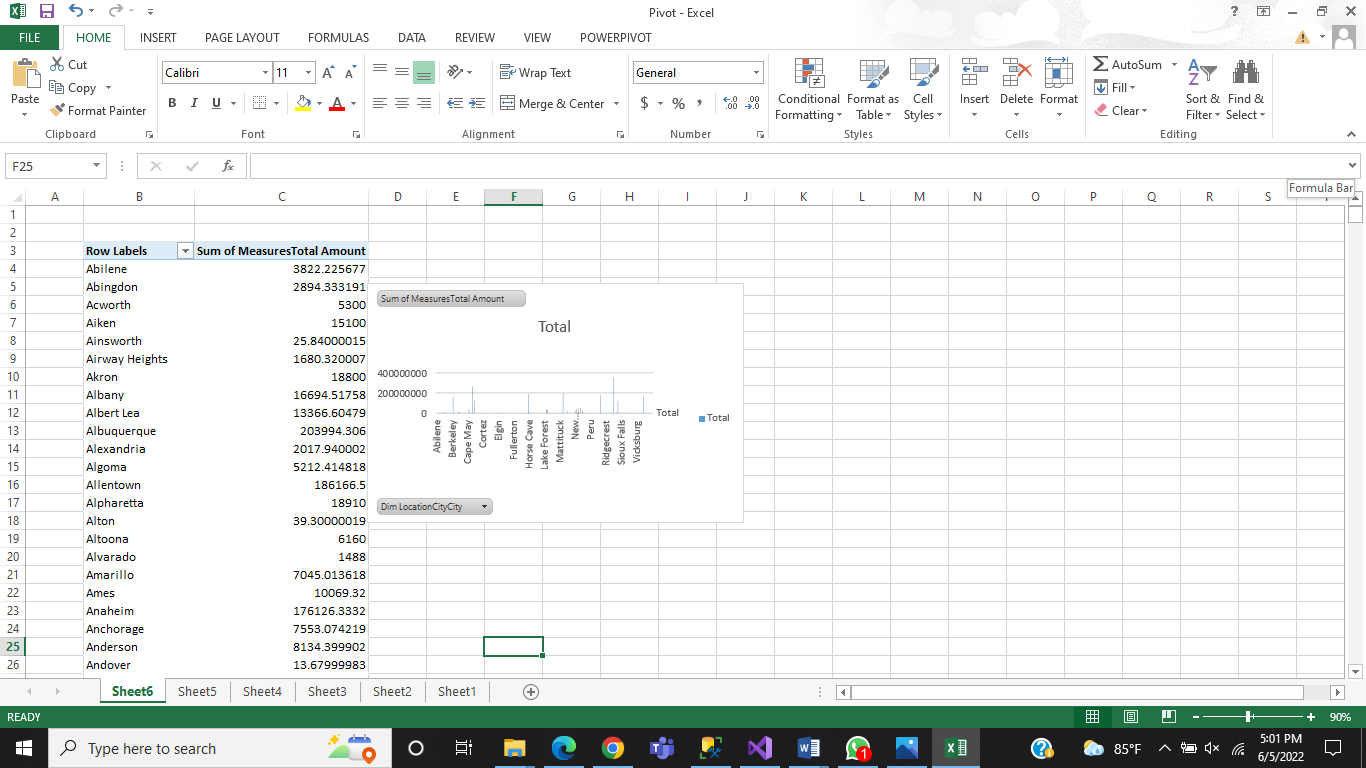
Slice performs a selection on one dimension of the given cube, thus resulting in a sub cube. 

### Dice

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



### Pivot

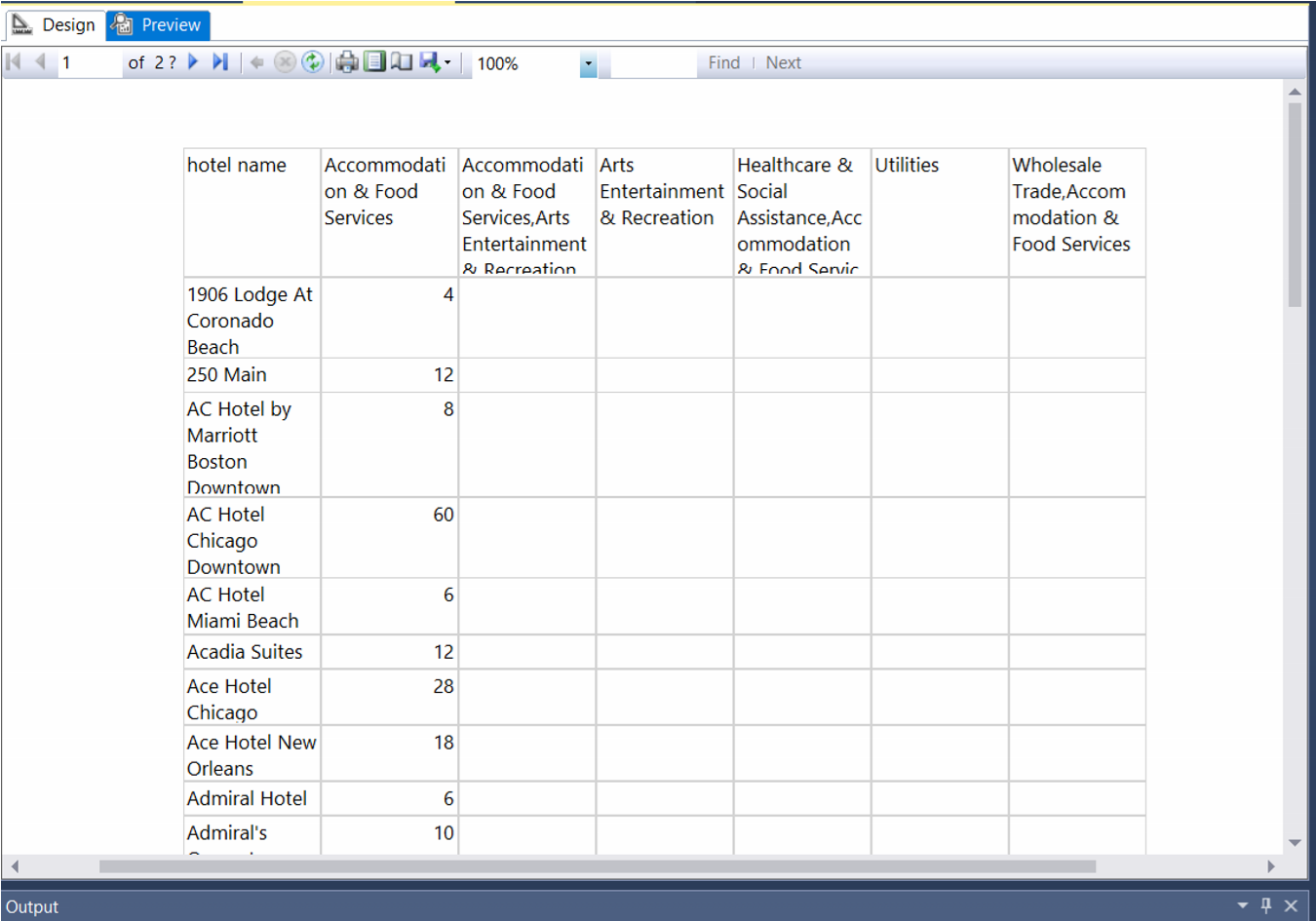
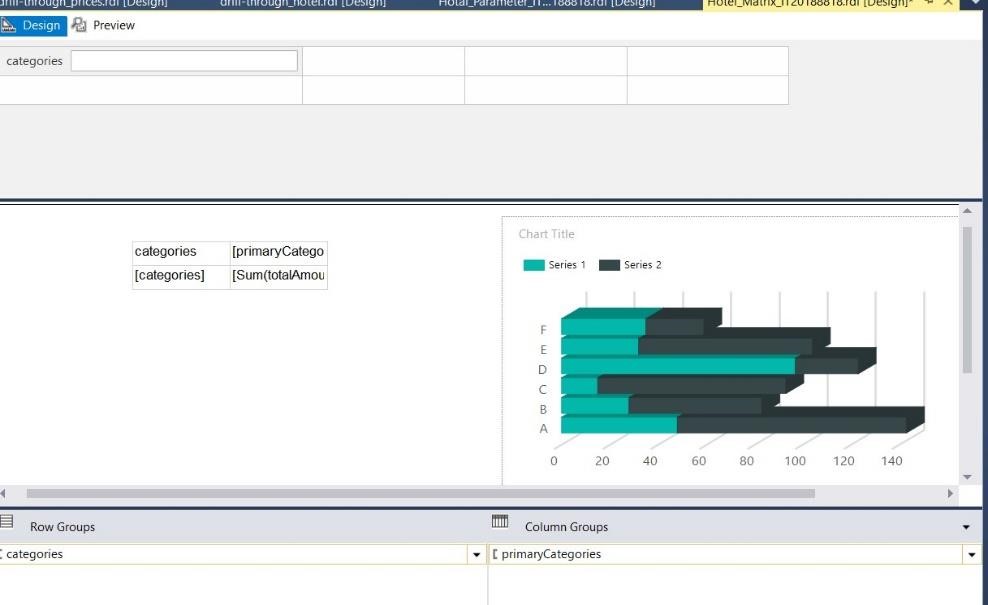


## SSRS Reports

**Report 01:**

Report with Matrix

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

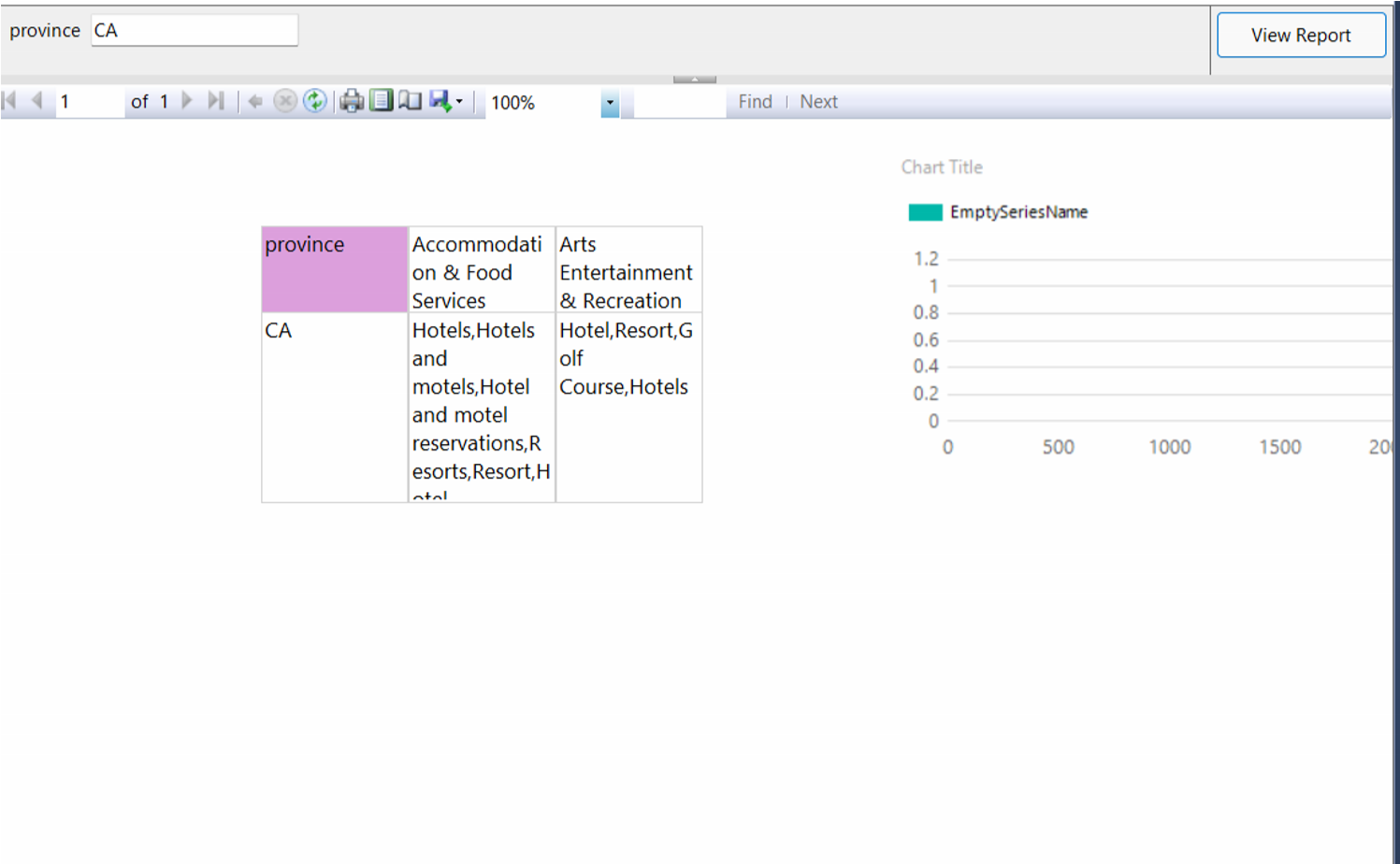


**Report 2:**

Report with more than one parameter this report has

3 parameters

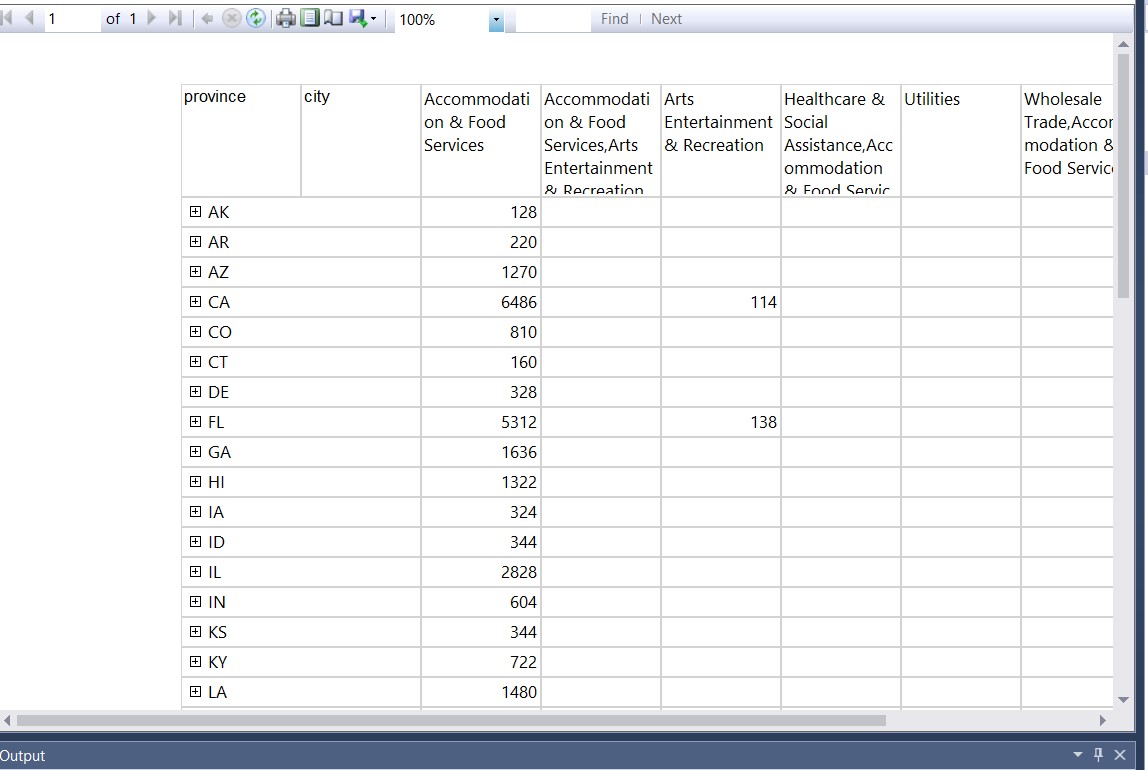
* Categories
* Primary Categories
* Province



**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)

