SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Malabe

Data Warehousing And Business Intelligence

IT 3021

Assignment 02

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Contents

Data Source

For this purpose use IT20188818_DW as Data warehouse which implemented in last Assignment (Assignment1).
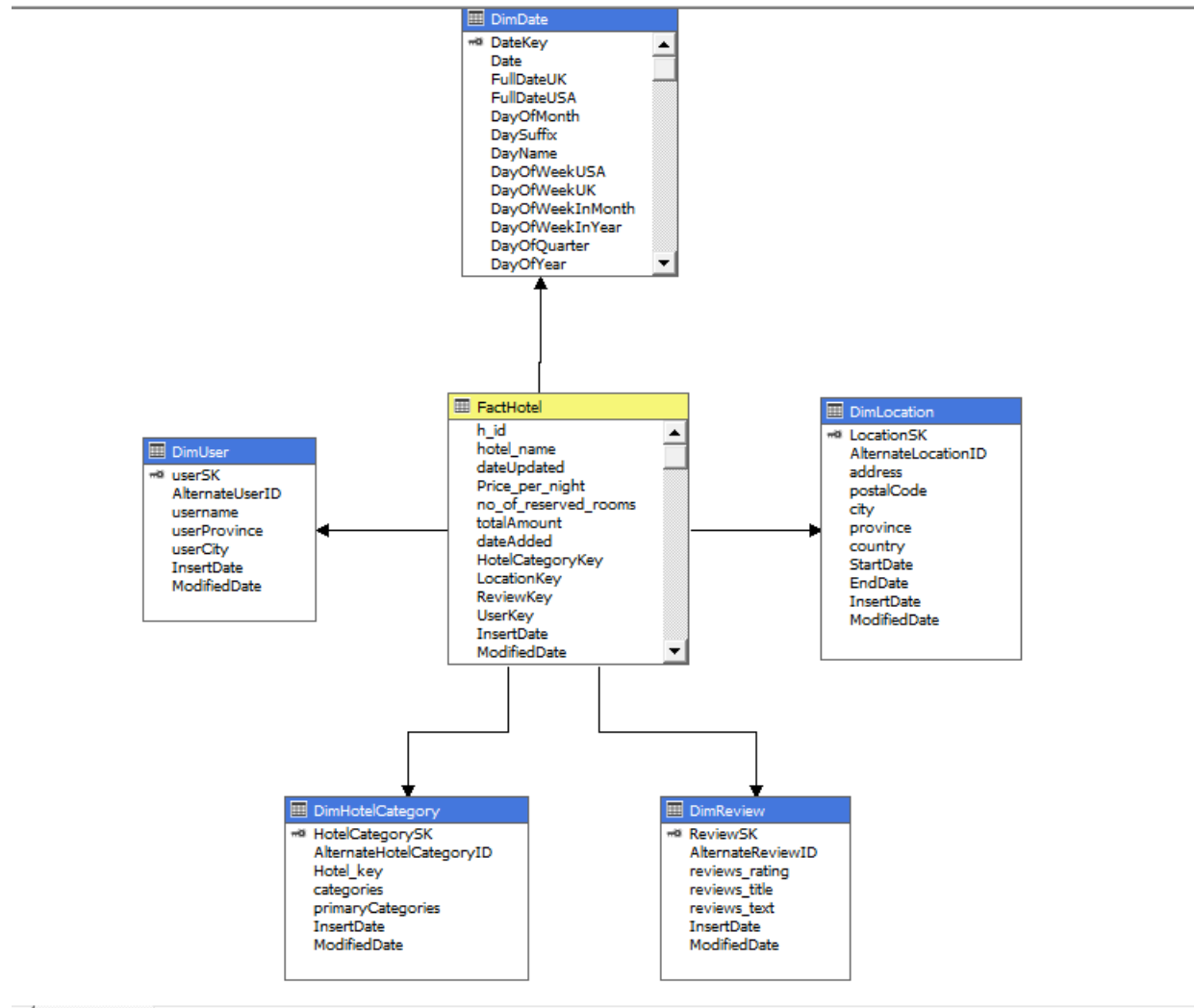
SSAS Cube

In here first create data source view using previous implemented data dimensions and fact table.
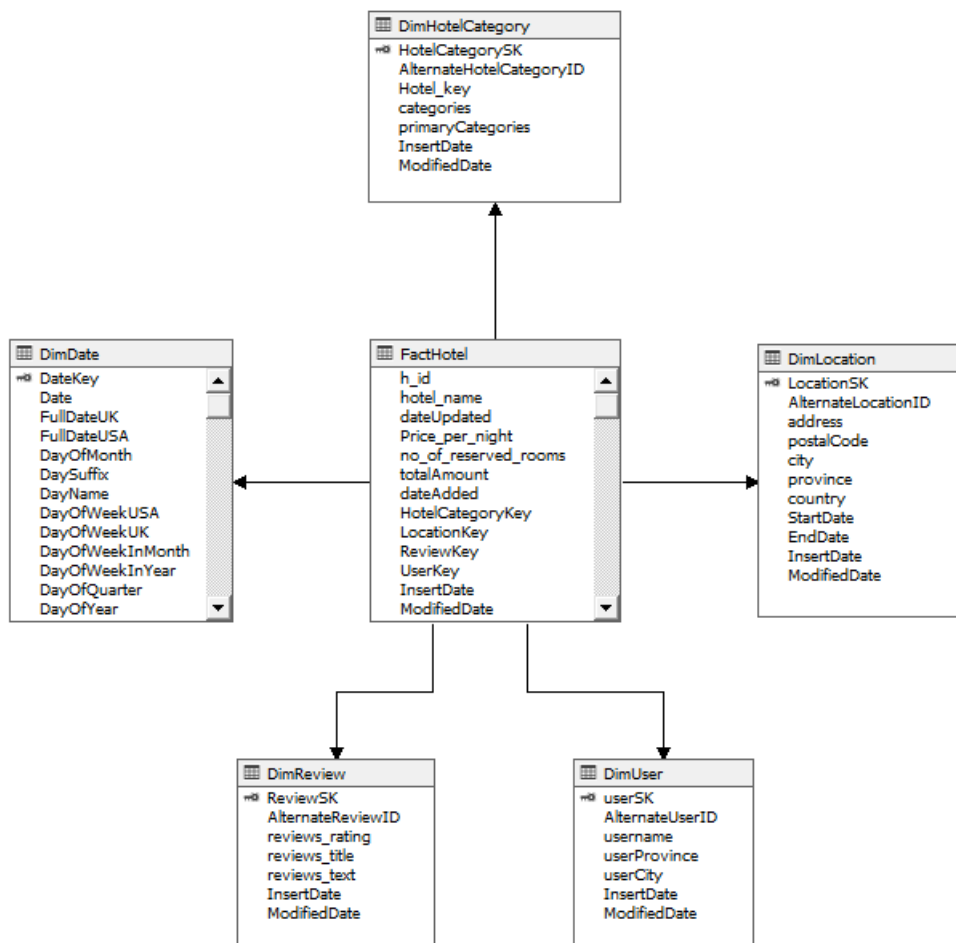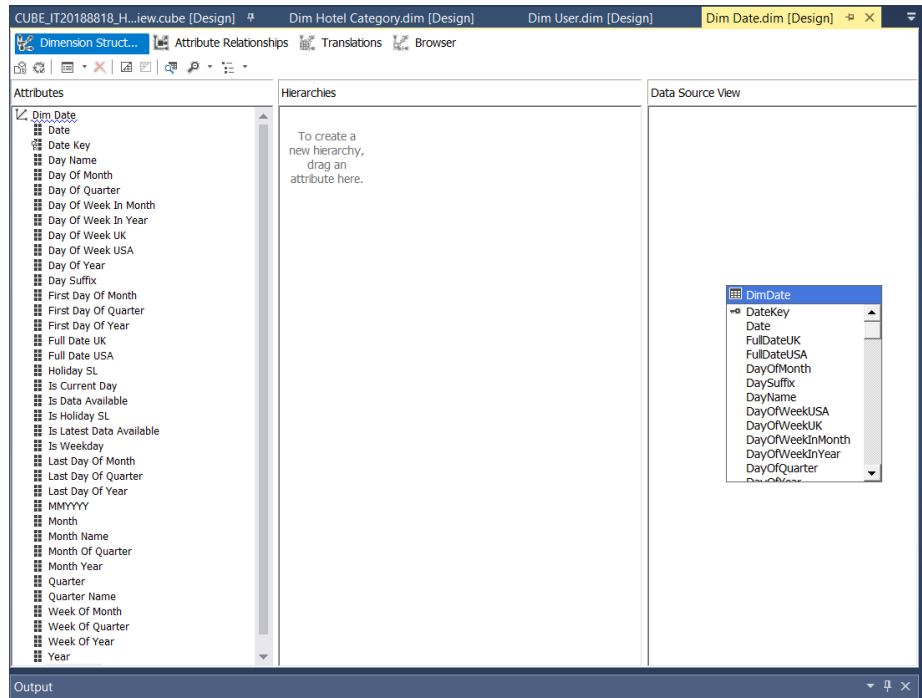
Then create Data Cube,

In here I choose FactHotel as measure group, DimDate, DimLocation, DimHotelcategory, DimUser and DimReview as dimensions.
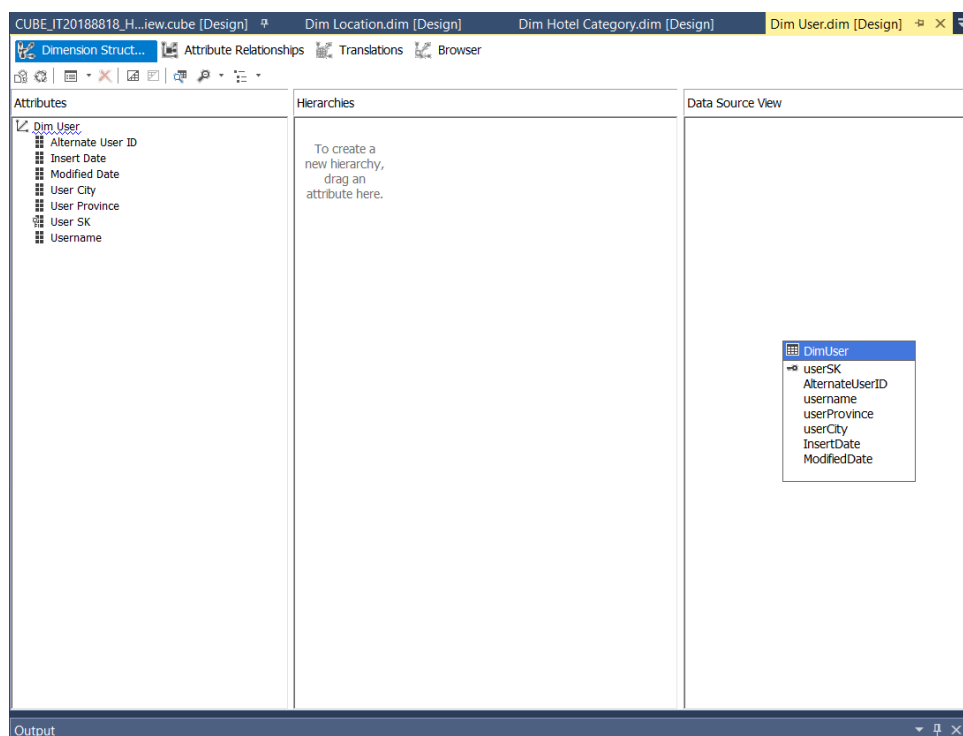
After that configure all the dimension with proper way.

- DimDate

- DimUser

- DimHotelCategory

- DimLocation

Then Deploy the Cube.

Create KPI

KPI Use for monitoring measures.
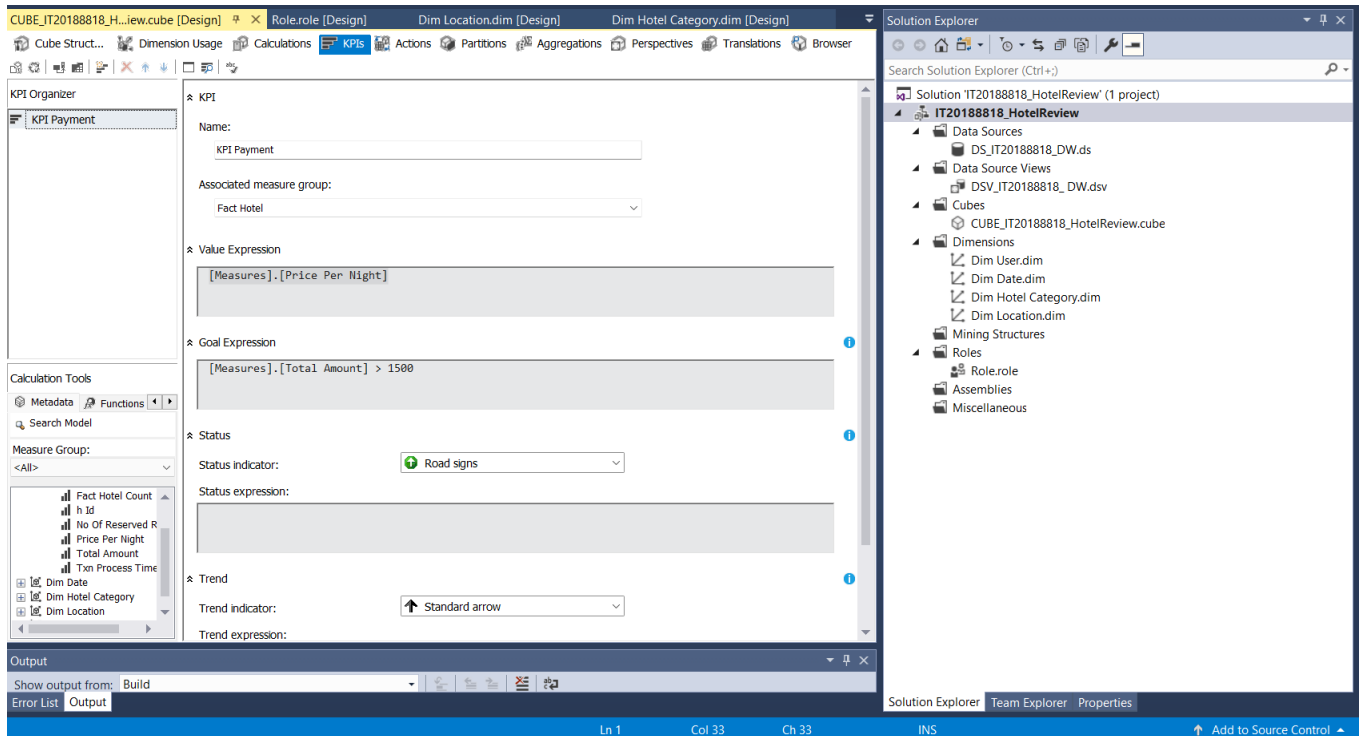
After deploying of this Cube look like this,

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.
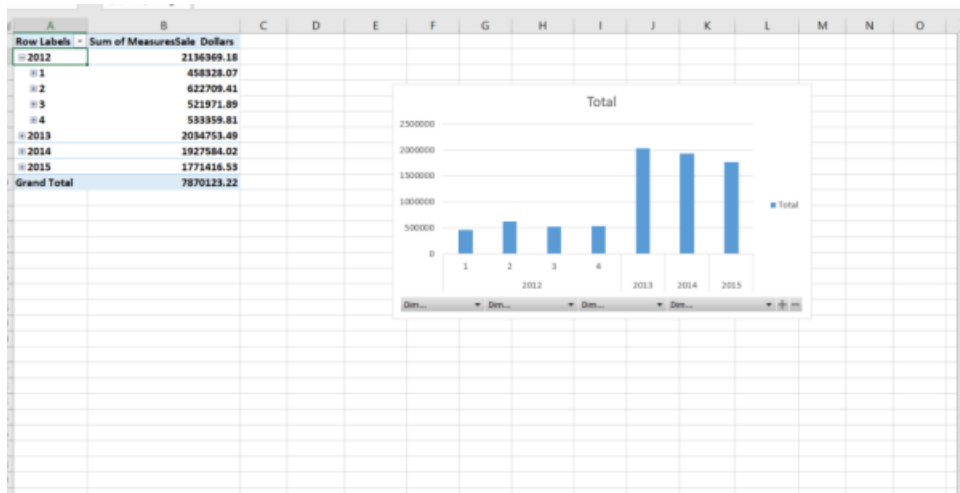
Drill-Down

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.

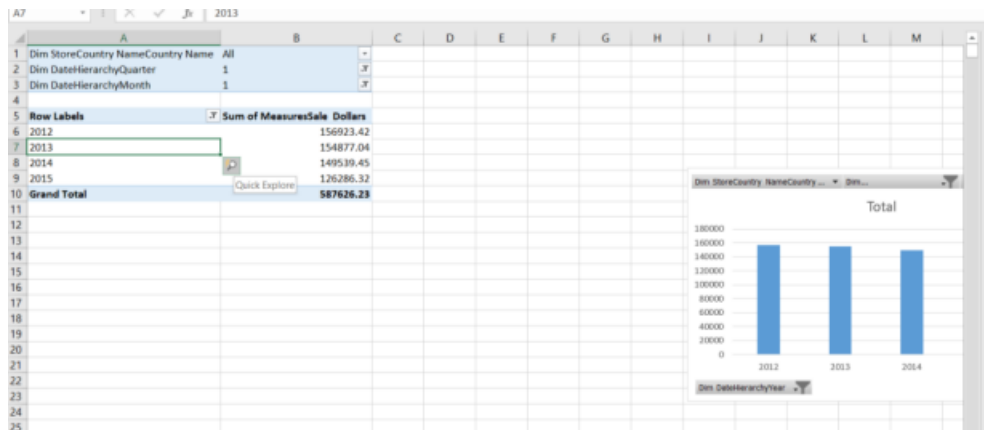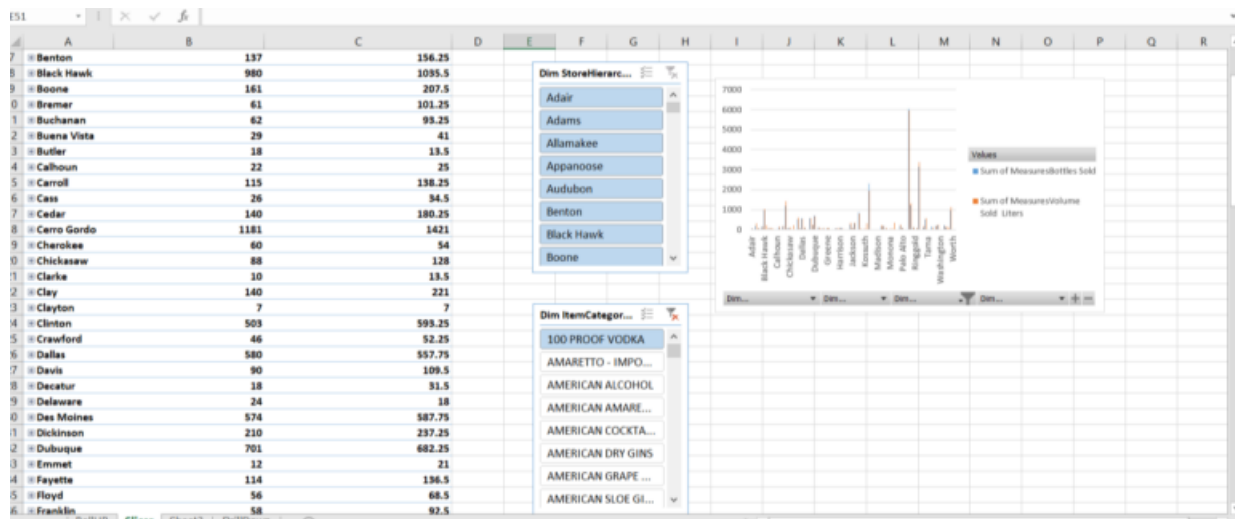| Row Labels	Average of Price_per_night	Sum of no_of_reserved_rooms	Average of totalAmount
1906 Lodge At Coronado Beach	$13.91	4	$27.81
250 Main Hotel	$598.50	12	$1,797.00
AC Hotel by Marriott Boston Downtown	$600.00	8	$2,400.00
AC Hotel Chicago Downtown	$21.55	60	$58.55
AC Hotel Miami Beach	$34.03	6	$102.09
Acadia Suites	$6.50	12	$19.50
Ace Hotel Chicago	$21.38	28	$74.63
Ace Hotel New Orleans	$409.83	18	$1,230.50
Admiral Hotel	$435.00	6	$1,305.00
Admiral's Ocean Inn	$17,890.50	10	$45,008.50
Alakai Hotel & Suites	$2,380.00	8	$9,520.00
Alamo Motel	$430.00	8	$1,720.00
Algoma Beach Motel	$25.40	4	$50.80
Alicia's Eagle Rock Lodge	$49.00	6	$147.00
Aloft Arundel Mills	$50.00	26	$108.33
Aloft Bolingbrook	$362.50	8	$1,450.00
Aloft Buffalo Airport	$26.09	26	$68.41
Aloft Cleveland Downtown	$220.00	22	$806.67
Aloft Denver Downtown	$840.00	6	$2,520.00
Aloft Detroit at The David Whitney	$909.00	10	$2,279.50
Aloft Durham Downtown	$162.50	8	$327.50
Aloft Greenville Downtown	$260.00	4	$520.00
Aloft Houston by the Galleria	$1,600.00	4	$3,200.00
Aloft Jacksonville Tapestry Park	$170.00	30	$512.00
Aloft New Orleans Downtown	$163.82	288	$603.87

Sheet2   Sheet1

SSRS Reports

Report 01:

Report with Matrix

In here yearly Hotel report Category vs Primary category and Total price more than 10000 USD had. And there is one parameter called HotelCategory.
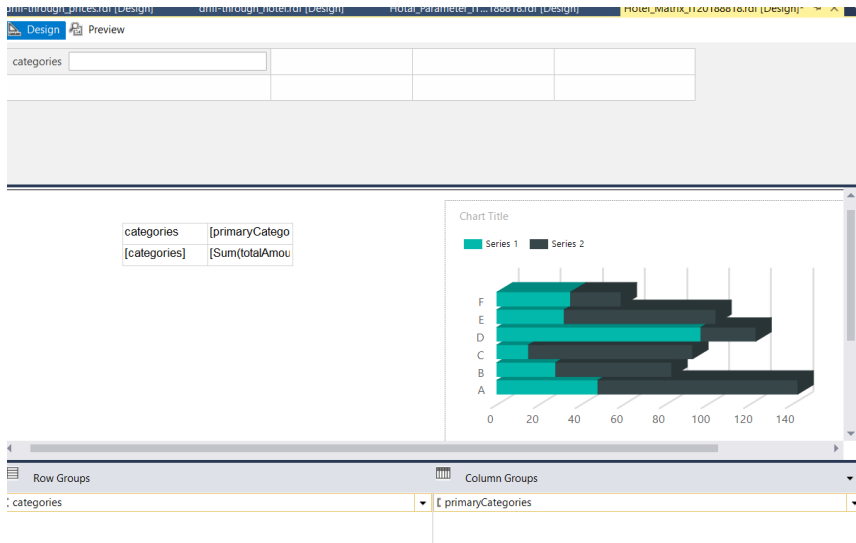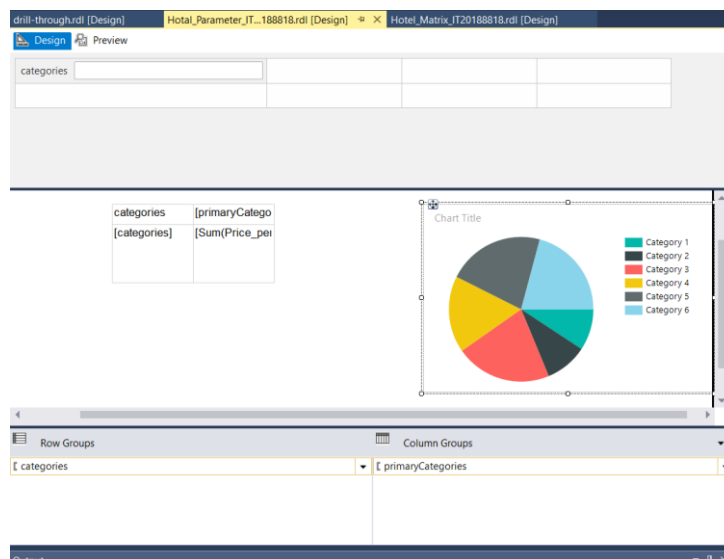

Report 2:

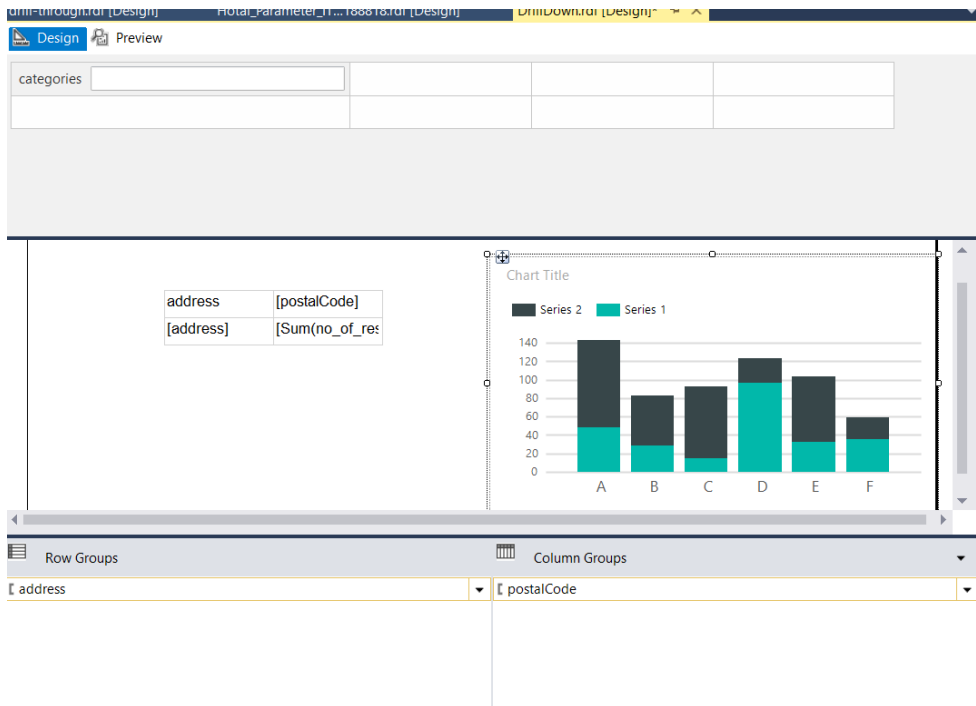Report with more than one parameter This report has

3 parameters

- Categories
- Primary Categories
- Price per night

Report 3:

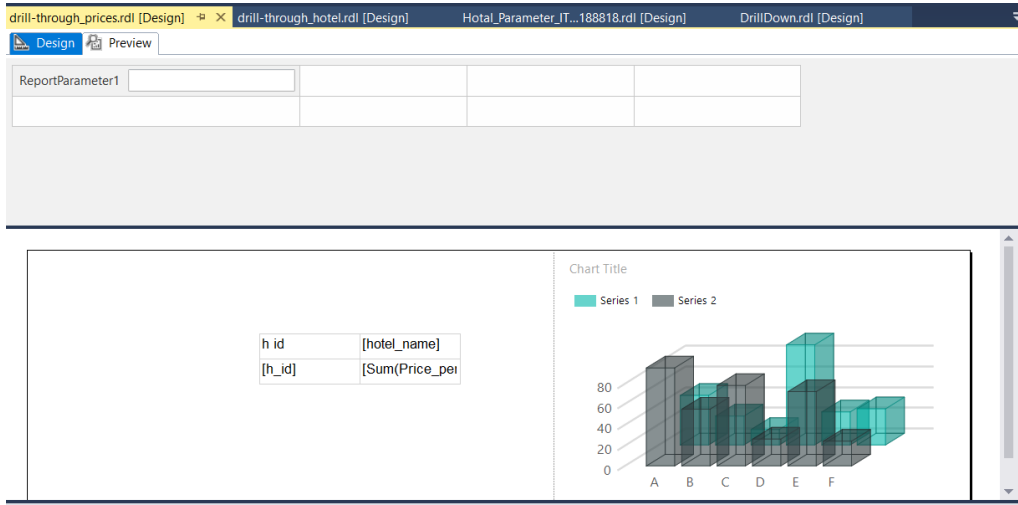SSRS drill-down report

This report is yearly total price of the hotel.

Report 4:

SSRS drill-through report

In this repot link through the category