

Sri Lanka Institute of Information Technology



Data Warehousing & Business Intelligence

Assignment 02

IT22918192

Rathnayaka S J

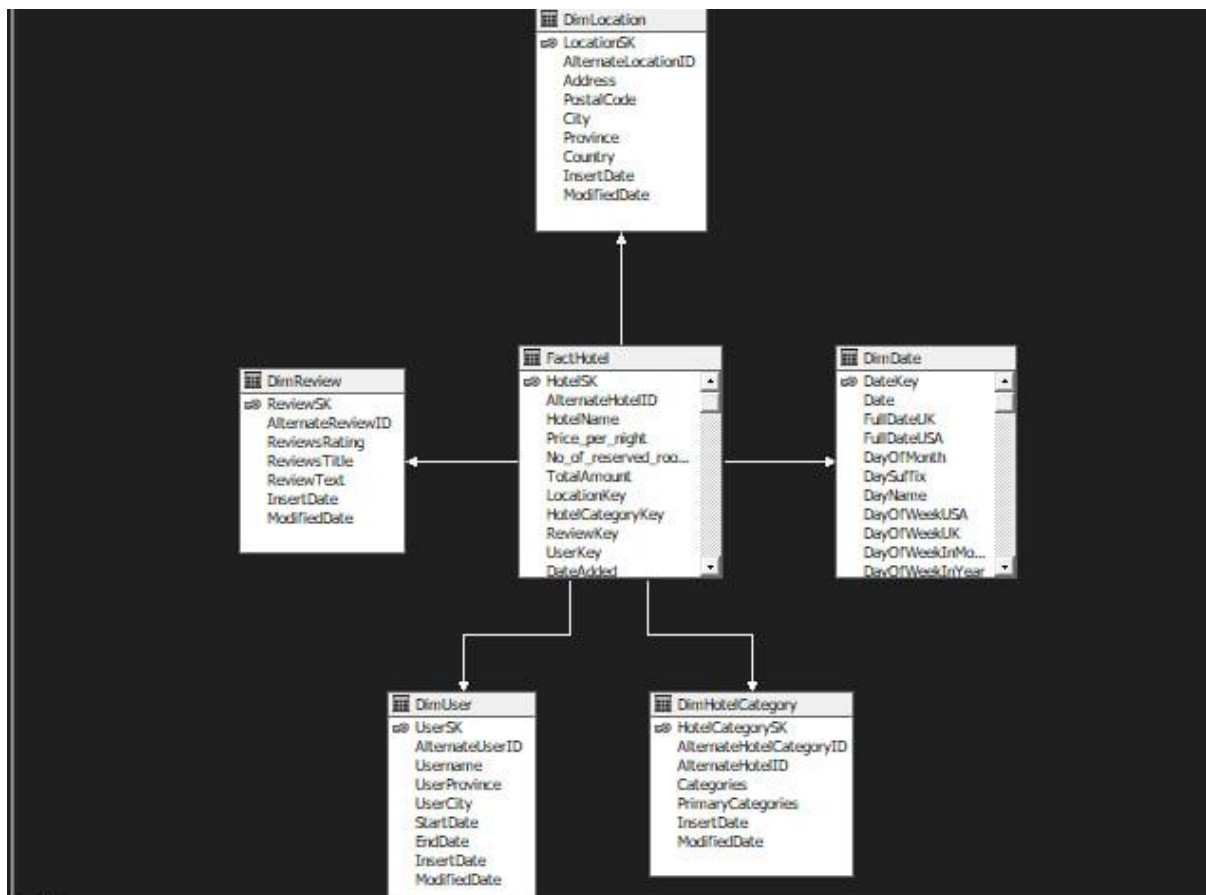
Year 03 semester 2- WE.DS.01.02

01. Data Source

- Hotel_DW as Data warehouse which implemented in last Assignment (Assignment1).

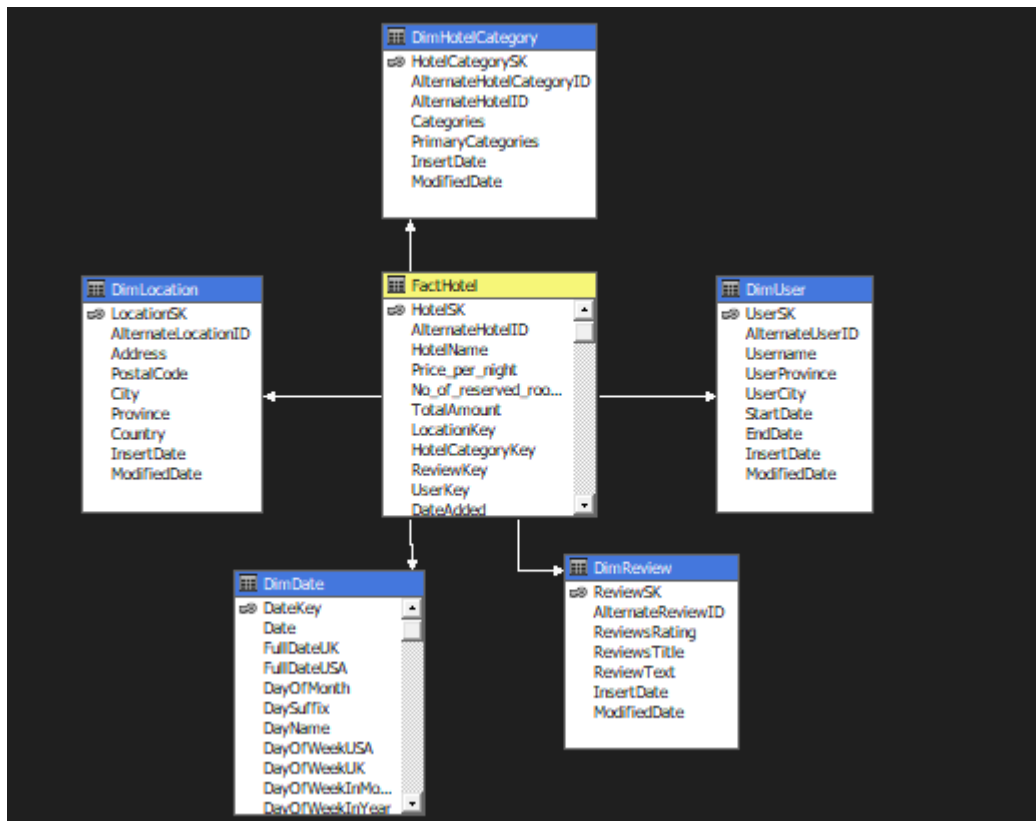
02. SSAS Cube Implementation

The first step in the cube creation process involves building a **Data Source View (DSV)**, which includes the dimensions and fact table that were previously designed and implemented.

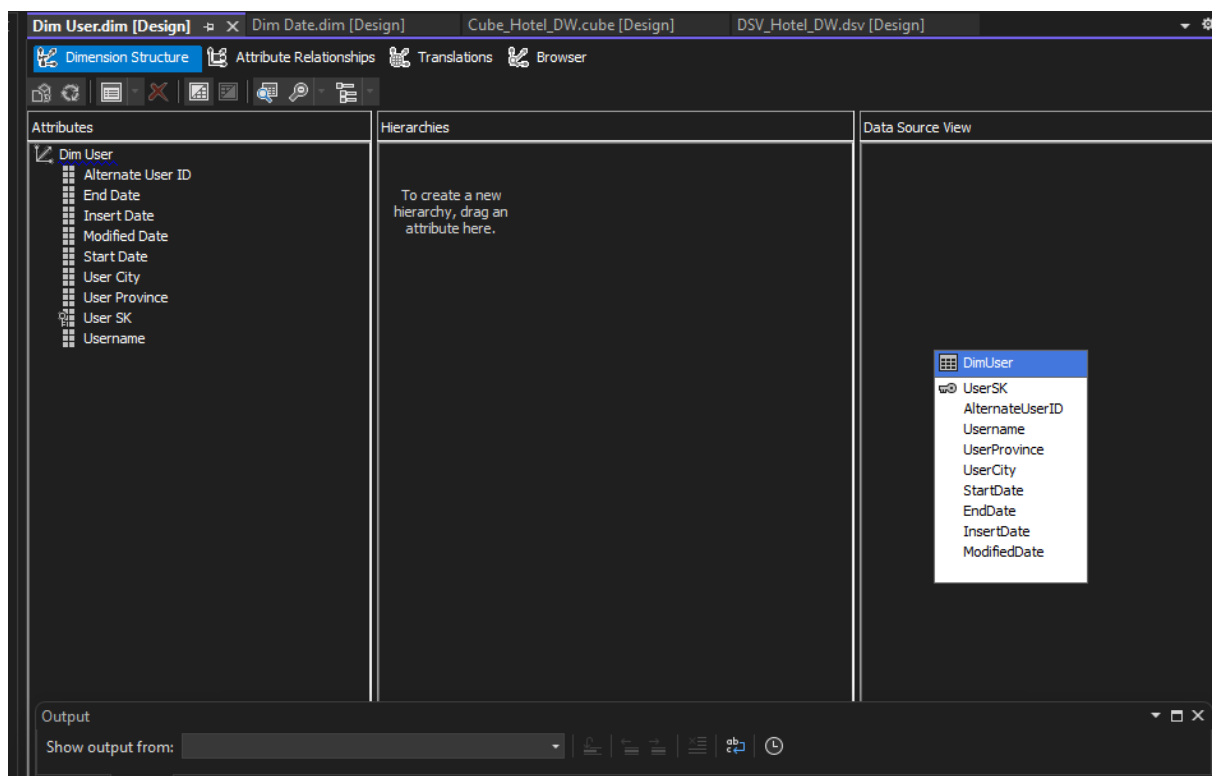


Next, proceed to create the data cube.

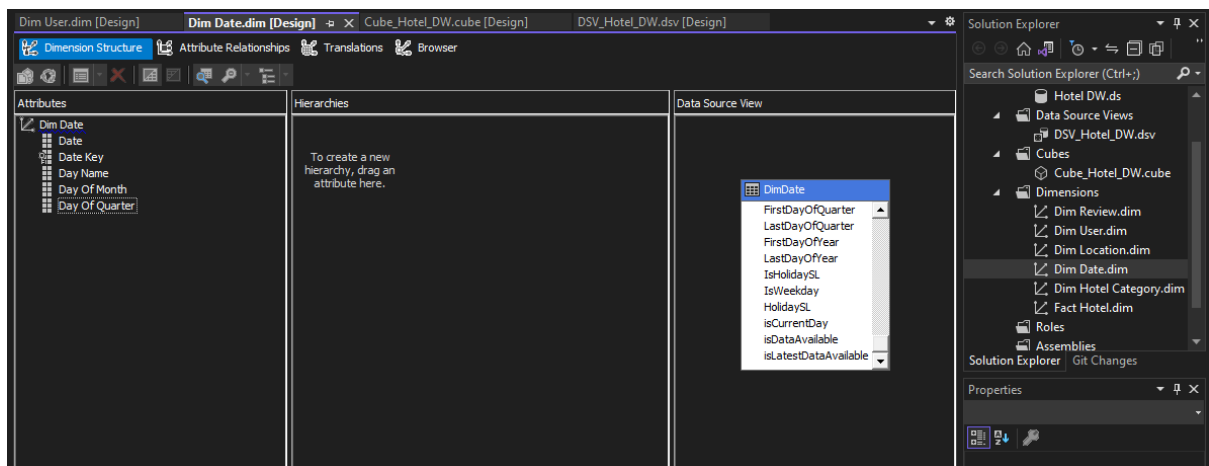
In this step, select **FactHotel** as the **measure group**, and use **DimDate**, **DimLocation**, **DimHotelCategory**, **DimUser**, and **DimReview** as the **associated dimensions**.



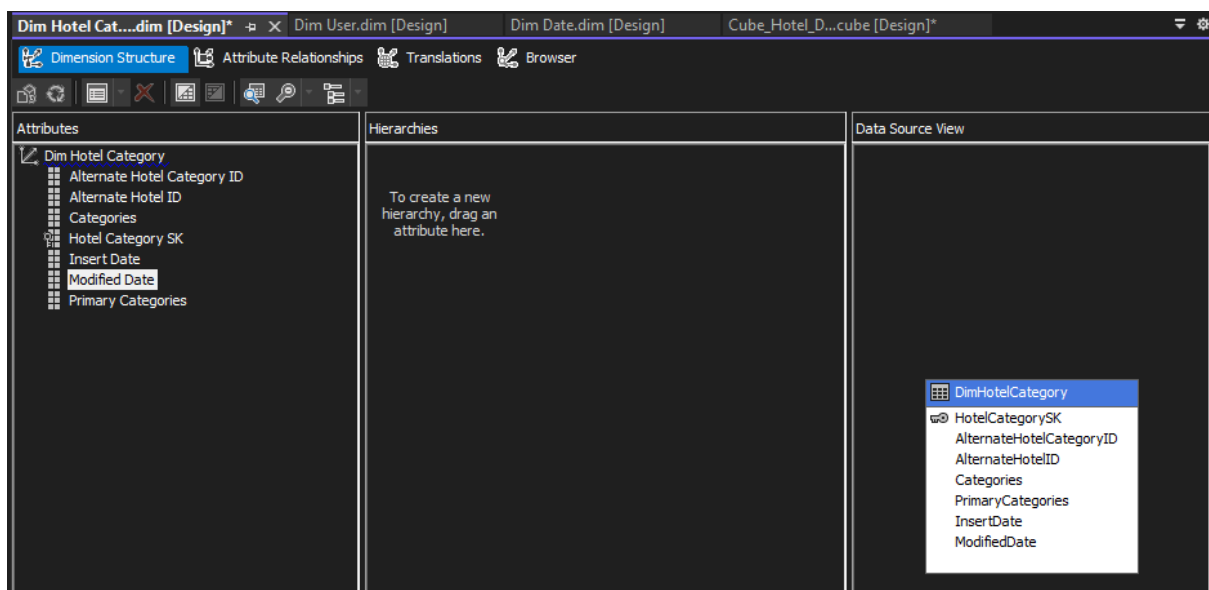
- Configuring all the dimensions
- dimUser



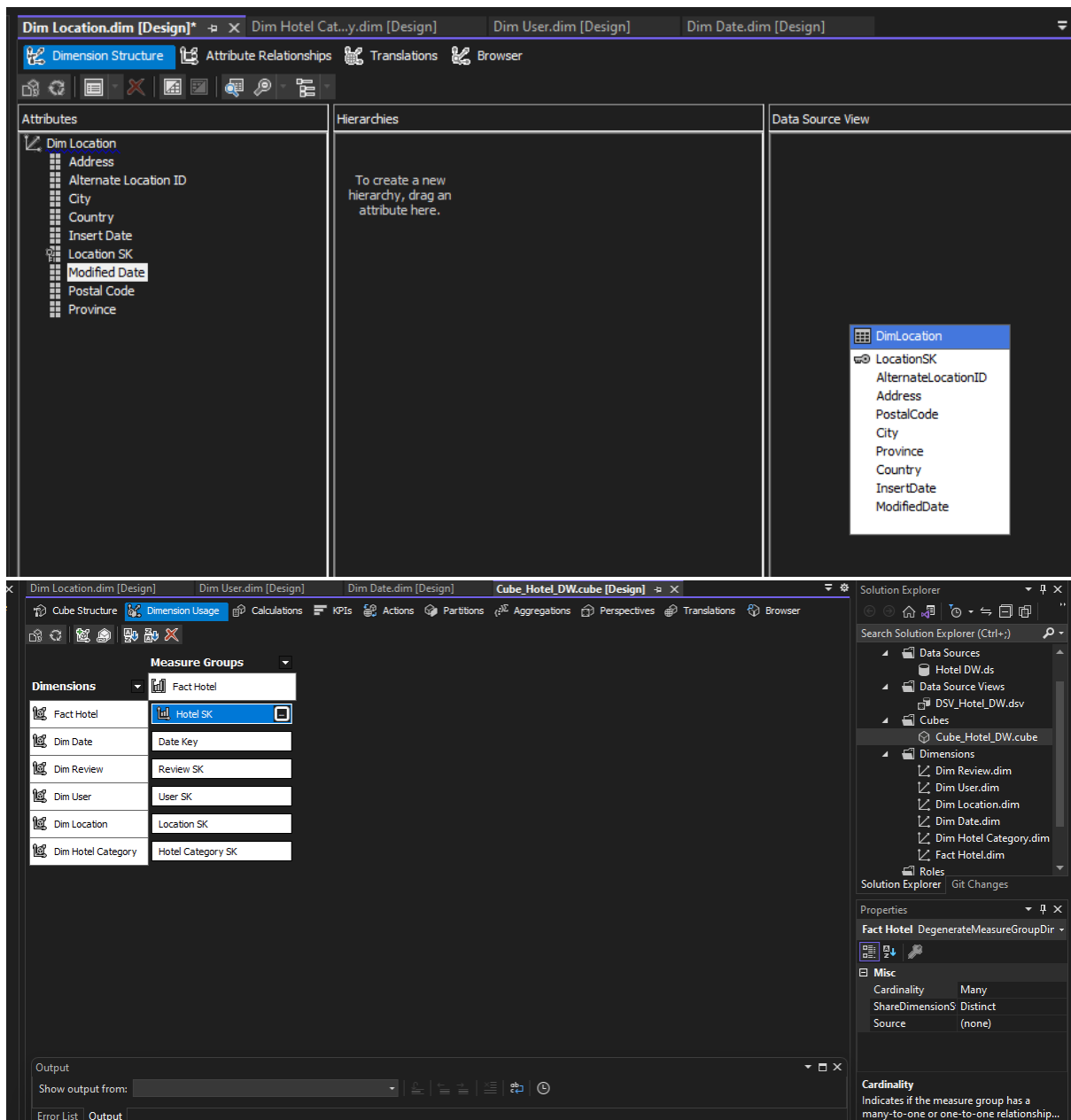
- dimDate



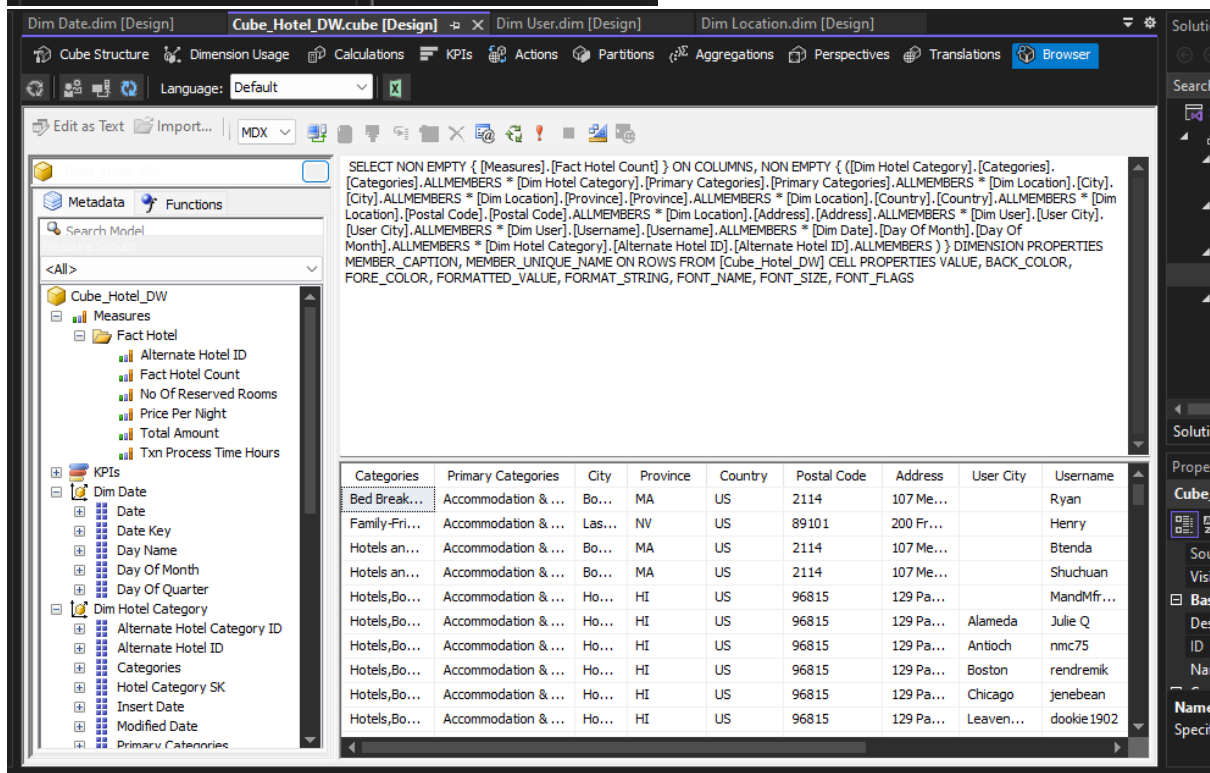
- dimHotelcategory



- DimLocation



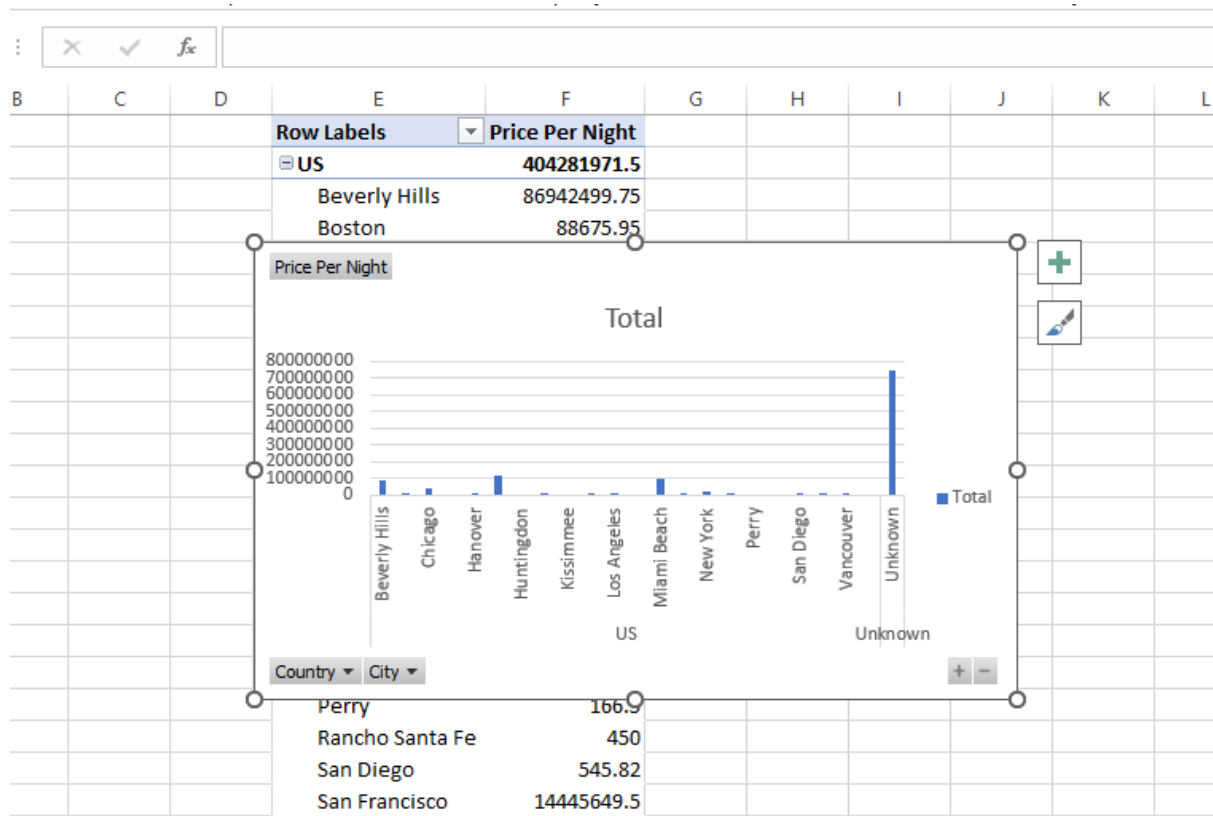
- Deploy the cube



- Roll Up

The roll-up process summarizes data within a cube by grouping it into a higher-level category, either by moving up within a hierarchy or by reducing the level of detail.

Row Labels					
D	E	F	G	H	
	Row Labels	Price Per Night			
	US	404281971.5			
	Beverly Hills	86942499.75			
	Boston	88675.95			
	Chicago	42758099.16			
	Des Plaines	159.63			
	Hanover	900			
	Honolulu	117045000			
	Huntingdon	195.75			
	Kansas City	768.75			
	Kissimmee	39.75			
	Las Vegas	15400621.41			
	Los Angeles	1177.11			
	Miami	106.5			
	Miami Beach	94440395.07			
	New Orleans	15000294.84			
	New York	18152811.57			
	Oxon Hill	2214.42			
	Perry	166.5			
	Rancho Santa Fe	450			
	San Diego	545.82			
	San Francisco	14445649.5			



- *Drill-Down*

Drill-down is the opposite of roll-up. It allows users to explore data at a more granular level, moving from summarized information to more detailed insights.

PivotTable		Active Field	Group	Filter
A1	:	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Row Labels	
1	Row Labels	Fact Hotel Count		
2	US	3000		
3	Beverly Hills	33		
4	225 North Canon Drive	33		
5	Boston	687		
6	10 Avery Street	3		
7	100 Stuart Street	234		
8	107 Merrimac Street	150		
9	225 Albany Street	3		
10	655 Boylston Street	297		
11	Chicago	657		
12	20 West Kinzie Street	414		
13	203 N Wabash Ave	57		
14	311 North Morgan Street	12		
15	530 N LaSalle Dr	3		
16	630 North Rush Street	33		
17	660 North State Street	138		
18	Des Plaines	12		
19	10300 W Higgins Rd	12		
20	Hanover	18		
21	7520 Teague Rd	18		
22	Honolulu	54		

- *Slicing*

The slice operation selects a single value for one dimension of a data cube, producing a smaller cube that focuses on that specific perspective.

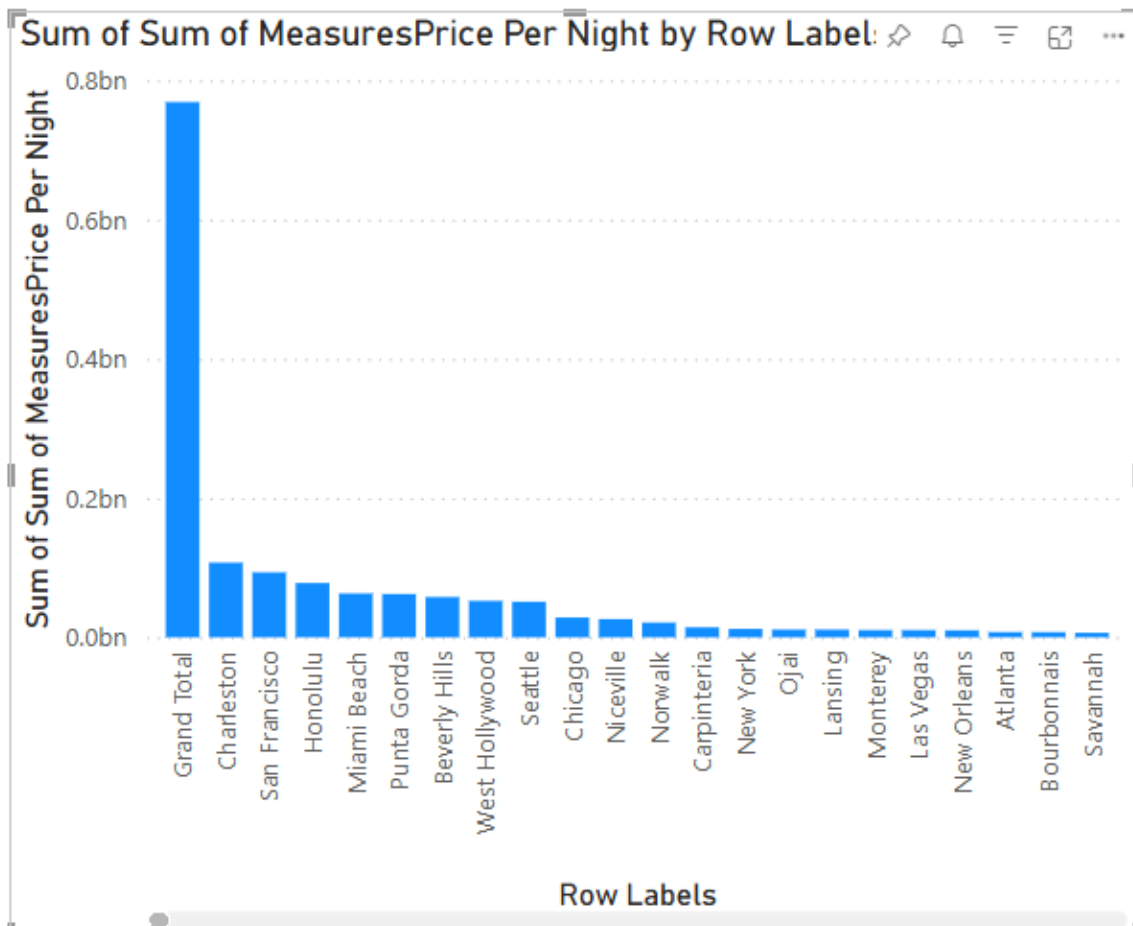
Address

</

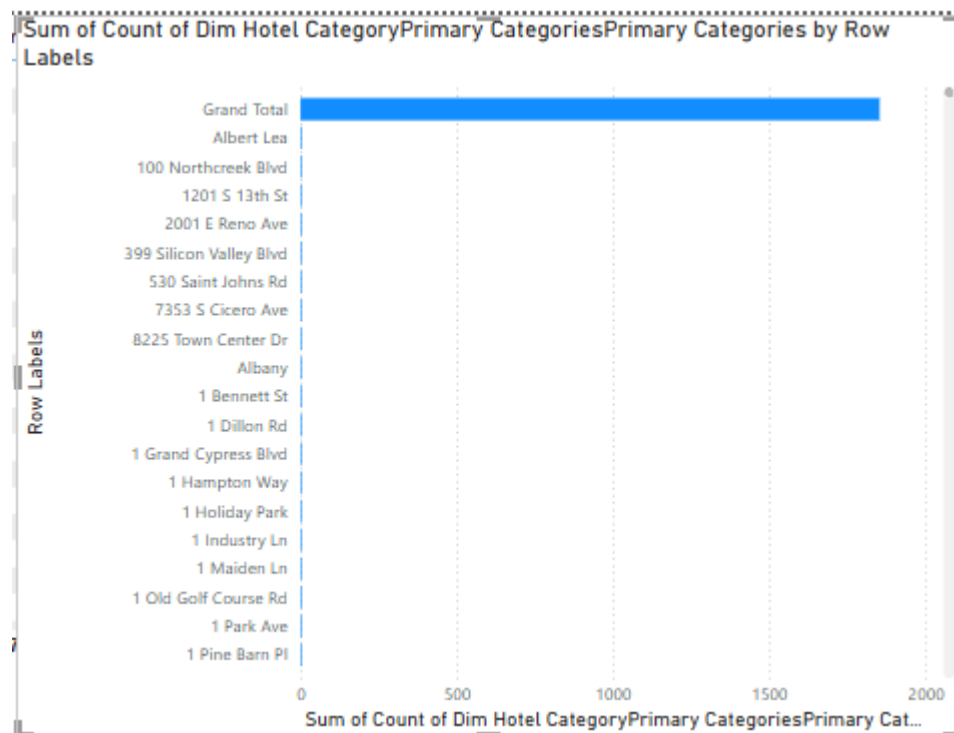
PowerBI Reports

Report 1:

Row Labels	Sum of Sum of MeasuresPrice Per Night
Abilene	1,007.23
Abingdon	1,241.17
Acworth	1,060.00
Aiken	4,150.00
Ainsworth	12.92
Airway Heights	672.16
Akron	6,200.00
Albany	6,785.39
Albert Lea	4,947.42
Albuquerque	59,872.00
Alexandria	726.92
Aloma	1,751.25
Total	1,538,048,616.39



Row Labels	Sum of Count of Dim Hotel CategoryPrimary CategoriesPrimary Categories
1 Bennett St	1
1 Dillon Rd	1
1 Grand Cypress Blvd	1
1 Hampton Way	1
1 Holiday Park	1
1 Industry Ln	1
1 Maiden Ln	1
1 Old Golf Course Rd	1
1 Park Ave	1
1 Pine Barn Pl	1
1 Ridgedale Ave N	1
10 Avery Street	1
10 Campanelli Dr	1
10 Century Blvd	1
10 Flight Rd	1
10 Lafayette Sq	1
10 Nw Minnesota Ave	1
100 Chestnut Ridge Rd	1
100 E Jefferson St	1
100 Eden St	1
100 F Ave NW	1
Total	3706



Report 2:

Report with more than one parameter this report has

3 parameters

- Row labels
- Sum of count of DimLocation
- Sum of price

Row Labels	Sum of Count of Dim LocationCityCity	Sum of Sum of MeasuresPrice Per Night
1 Bennett St	1	9,370.00
1 Dillon Rd	1	257.64
1 Grand Cypress Blvd	1	11,910.00
1 Hampton Way	1	3,180.00
1 Holiday Park	1	3,056.73
1 Industry Ln	1	64.24
1 Maiden Ln	1	1,760.00
1 Old Golf Course Rd	1	10,400,000.00
1 Park Ave	1	3,636.00
1 Pine Barn Pl	1	2,120.00
1 Ridgedale Ave N	1	23.12
10 Avery Street	1	60.75
10 Campanelli Dr	1	2.74
10 Century Blvd	1	8,686.00
10 Flight Rd	1	6,300.00
10 Lafayette Sq	1	9,980.00
10 Nw Minnesota Ave	1	1,852.12
100 Chestnut Ridge Rd	1	1,396.44
100 E Jefferson St	1	1,564.92
100 Eden St	1	104.92
100 F Ave NW	1	412.04
100 Hotel Rd	1	5,147.63
100 Lakeside Ave E	1	30,000.00
100 Main St	1	15,136.00
100 N Road 11	1	210.00
100 N West St	1	1.00
100 Northcreek Blvd	2	2,715.94
100 S Washington St	1	50.80
100 Soscol Ave	1	22,045.00
100 Stuart Street	1	2,768.13
100 Westbank Expy	1	36.16
1000 9th Ave S	1	5,686.72
1000 Commons Blvd	1	333.56
1000 S Euclid St	1	1,920.00
Total	3706	1,538,048,616.39

Sum of Count of Dim LocationCityCity and Sum of Sum of MeasuresPrice Per Night by Row Labels

● Sum of Count of Dim LocationCityCity ● Sum of Sum of MeasuresPrice Per Night

