

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Malabe



Data Warehousing And Business Intelligence

IT 3021

Assignment 02

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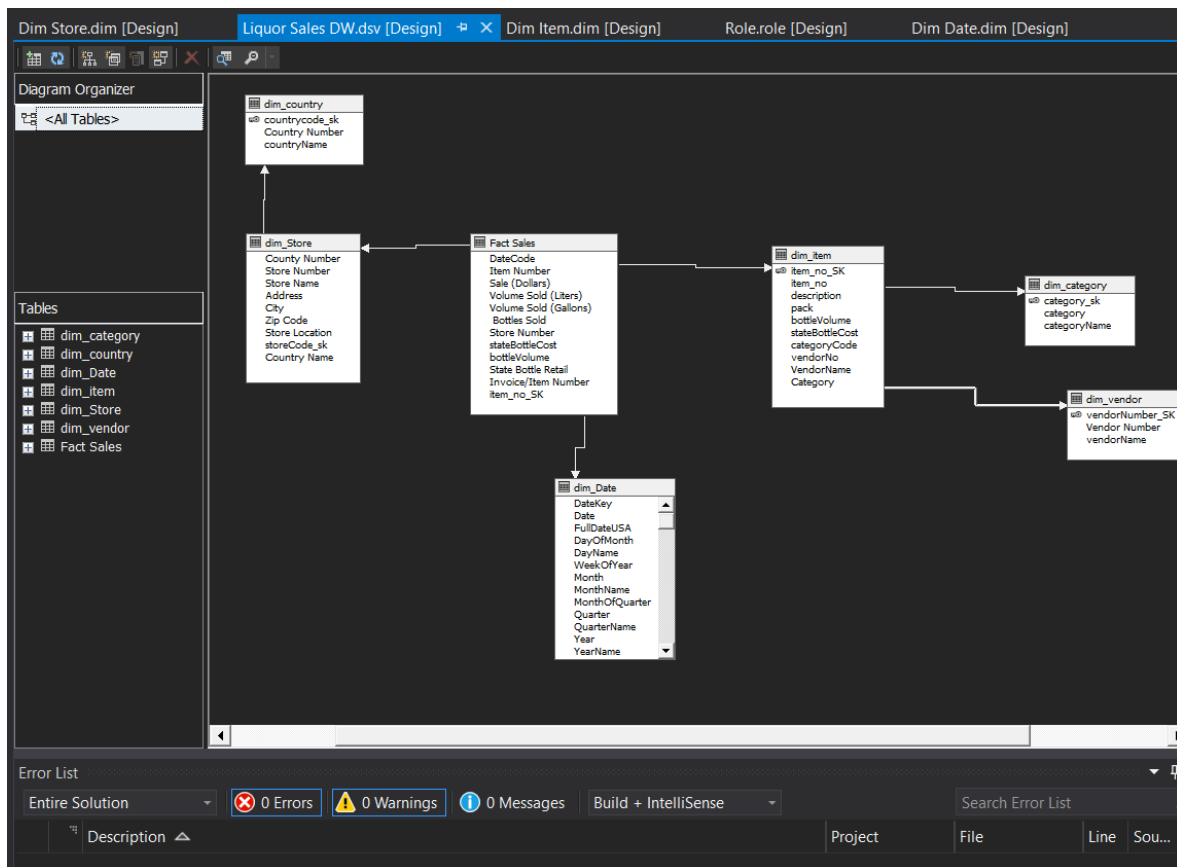
Batch : DS-2018

Data Source

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

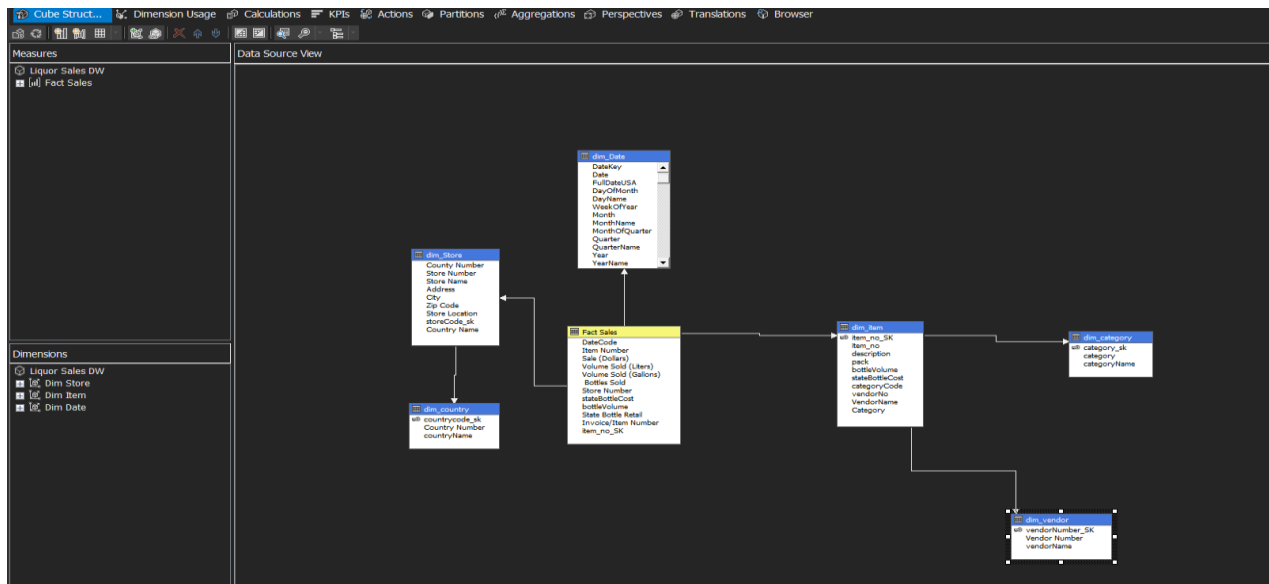
SSAS Cube

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



Then create Data Cube,

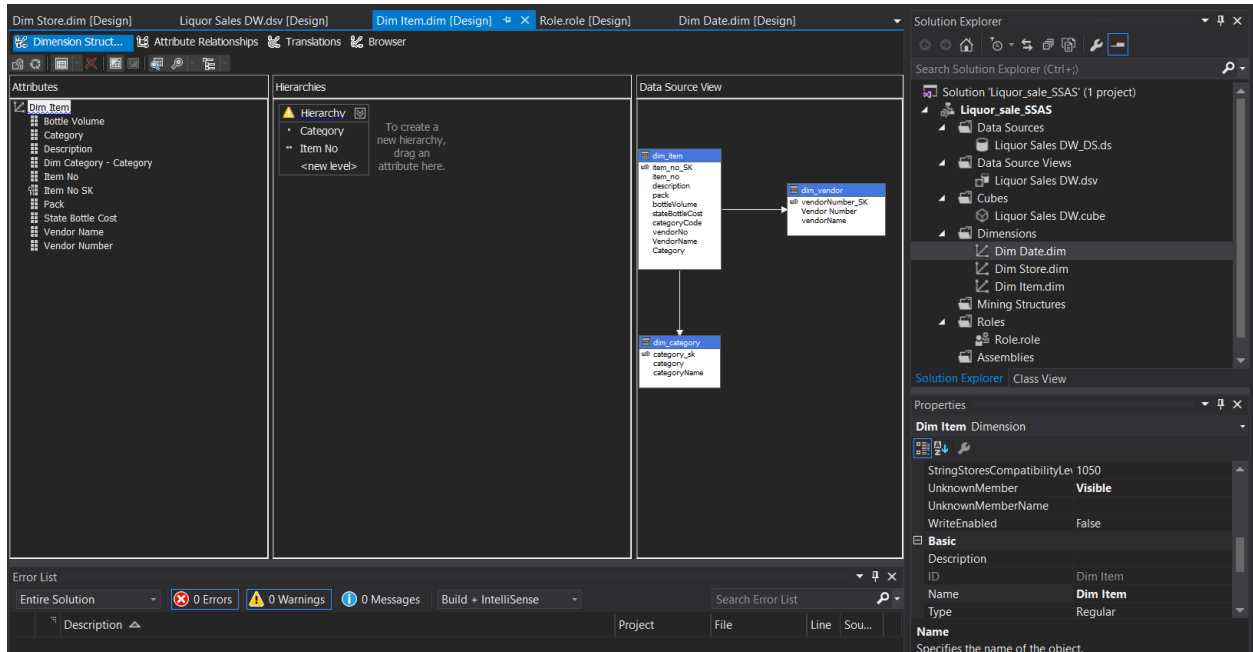
In here I choose Fact Sales as measure group, dim_date, dim_item and dim_store as dimensions.



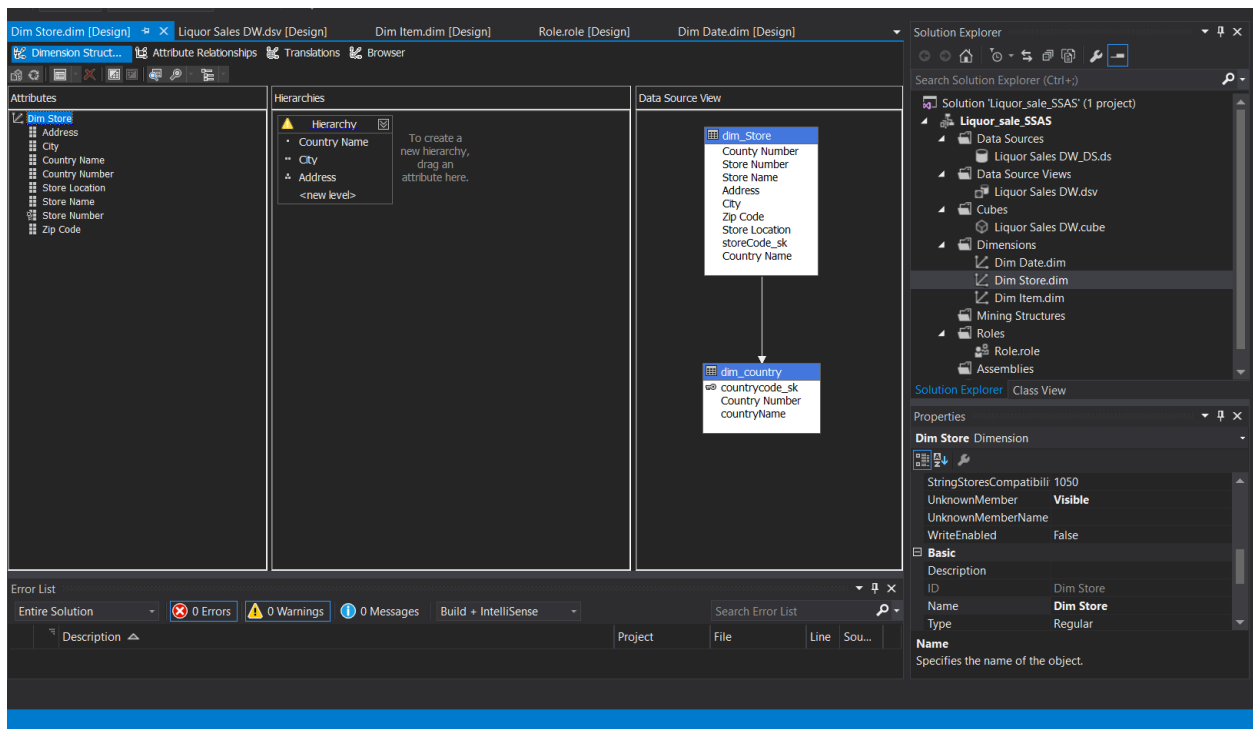
After that configure all the dimension with proper way.

- Dim Date

- Dim Item



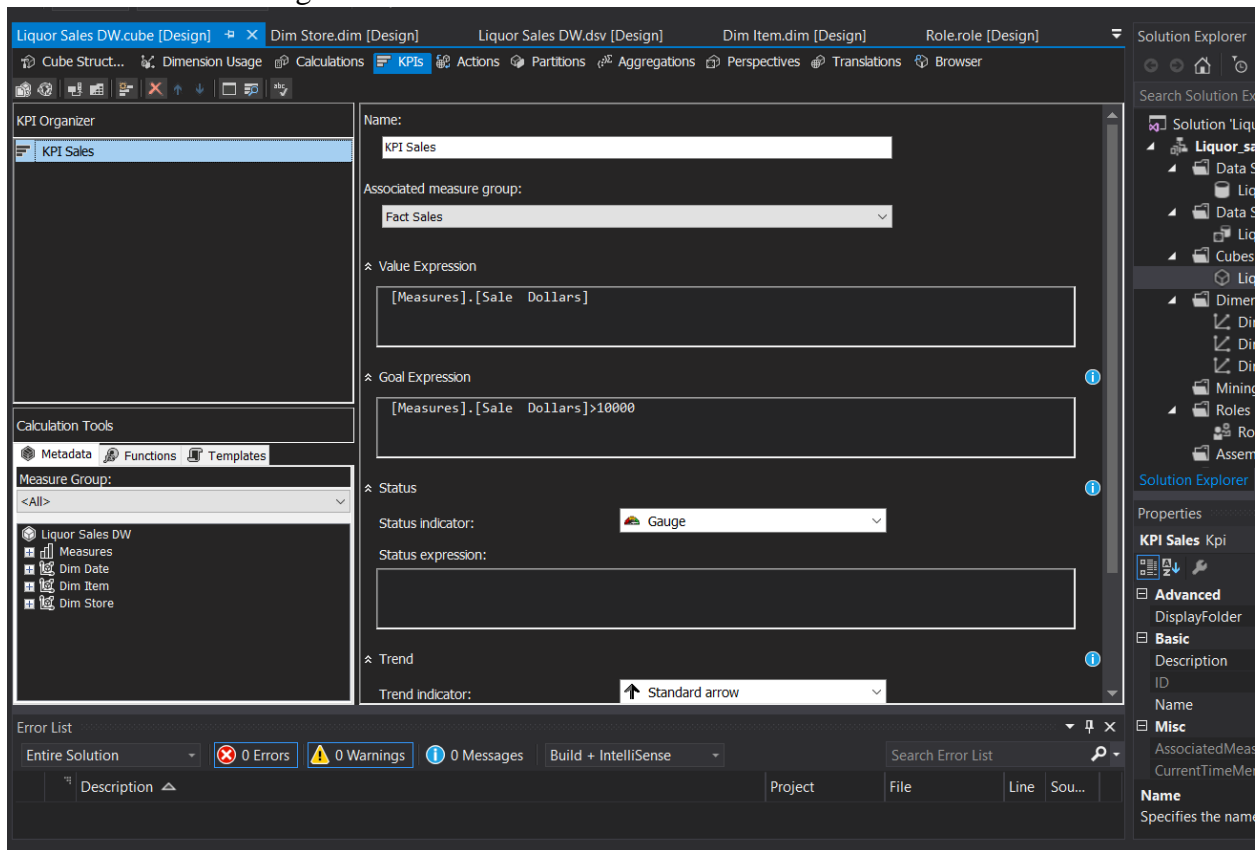
- Dim Store



Then Deploy the Cube.

Create KPI

KPI Use for monitoring measures.



After deploying of this Cube look like this,

The screenshot shows the Cube Designer interface in SQL Server Data Tools. The main window is titled 'Liquor Sales DW' and contains the following data:

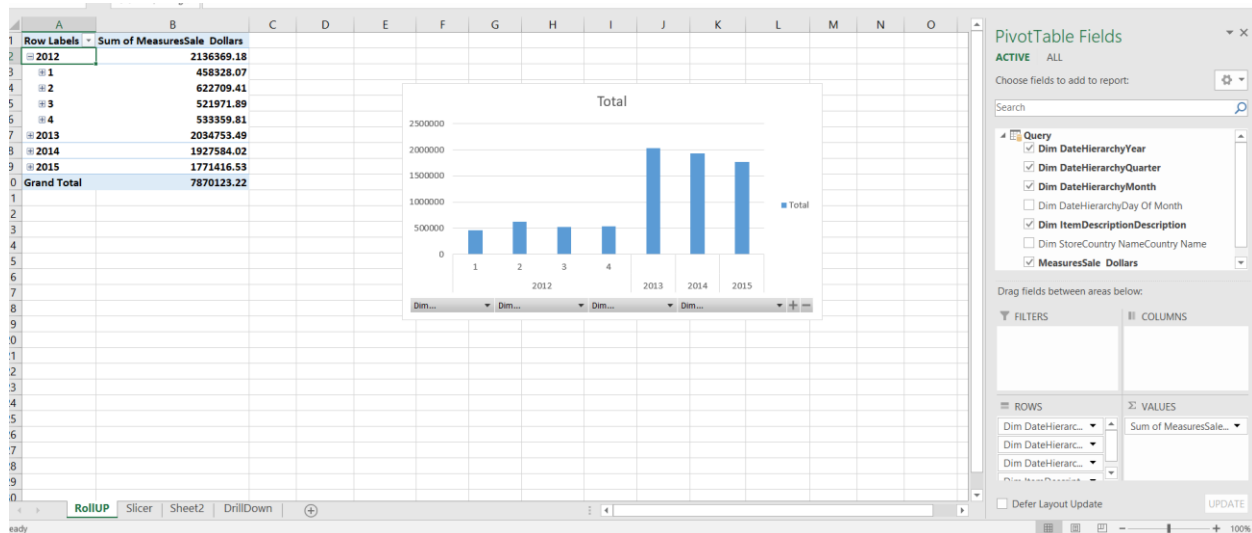
Country Name	City	Category	Description	Bottles Sold	Volume Sold Liters	Sale Dollars
Adair	AD...	AMERIC...	Seagrams ...	12	6	59.4
Adair	AD...	AMERIC...	Paul Mass...	24	9	115.92
Adair	AD...	APPLE S...	Deluxer ...	6	4.5	56.7
Adair	AD...	CANADI...	Black Velvet	42	34.5	354.9
Adair	AD...	CANADI...	Black Velv...	12	9	121.56
Adair	AD...	CANADI...	Canadian ...	6	10.5	82.26
Adair	AD...	CANADI...	Crown Royal	24	18	540
Adair	AD...	CANADI...	Crown Ro...	12	9	270
Adair	AD...	FLAVOR...	Malibu Co...	12	9	134.88
Adair	AD...	IMPORT...	Hennessey VS	24	4.8	203.52
Adair	AD...	IMPORT...	Absolut S...	24	18	413.76
Adair	AD...	IMPORT...	Absolut S...	10	6	118.8
Adair	AD...	MISC. A...	Kinky Blue	12	9	180
Adair	AD...	PEACH S...	Deluxer ...	6	4.5	56.7
Adair	AD...	PUERTO...	Bacardi Su...	12	9	135
Adair	AD...	SPICED ...	Captain M...	12	9	162
Adair	AD...	SPICED ...	Captain M...	6	10.5	162
Adair	AD...	STRAIG...	Jim Beam ...	6	4.5	94.44
Adair	AD...	TENNES...	Jack Dani...	12	9	261.6
Adair	AD...	TENNES...	Jack Dani...	6	4.5	135.66
Adair	AD...	TEQUILA	Patron Sil...	6	2.25	126
Adair	AD...	VODKA ...	Five O'clo...	18	19.5	125.52
Adair	AD...	VODKA ...	Hankkeye ...	180	126	880.8
Adair	AD...	VODKA ...	Smirnoff V...	12	9	148.56

OLAP Operation

Using Excel 2016 Power Pivot we can do all OLAP operation

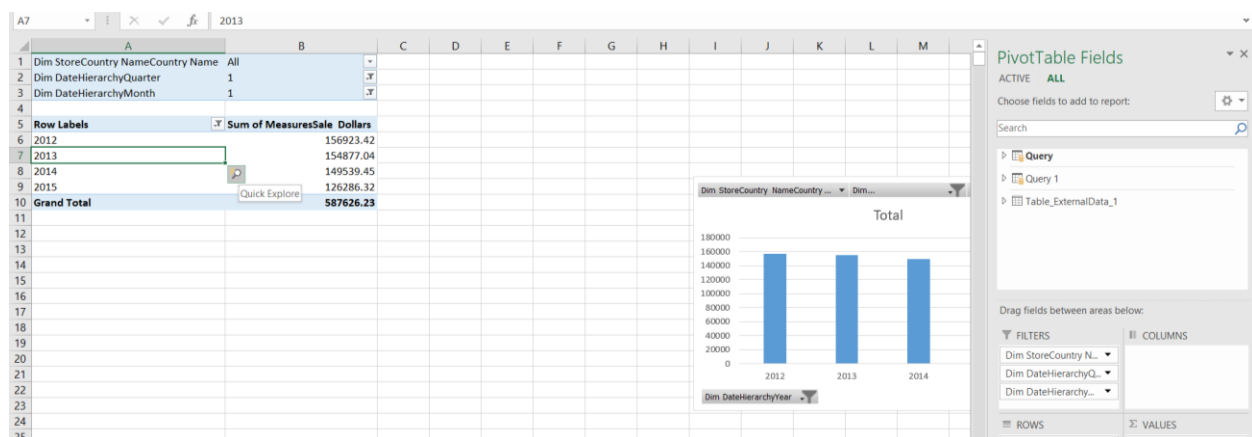
- **Roll Up**

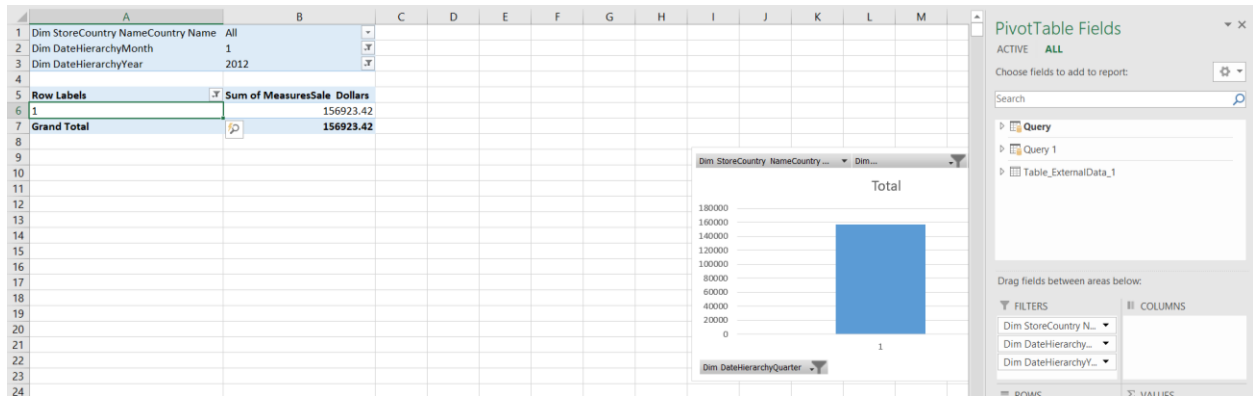
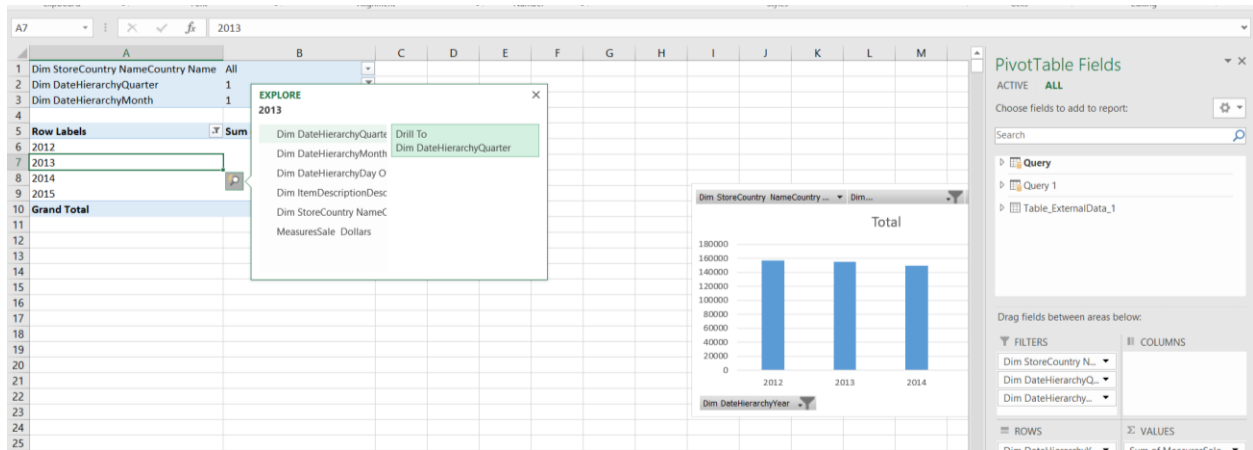
The roll-up operation performs aggregation on a data cube, either by climbing up a hierarchy or by climbing down a hierarchy



- **Drill-Down**

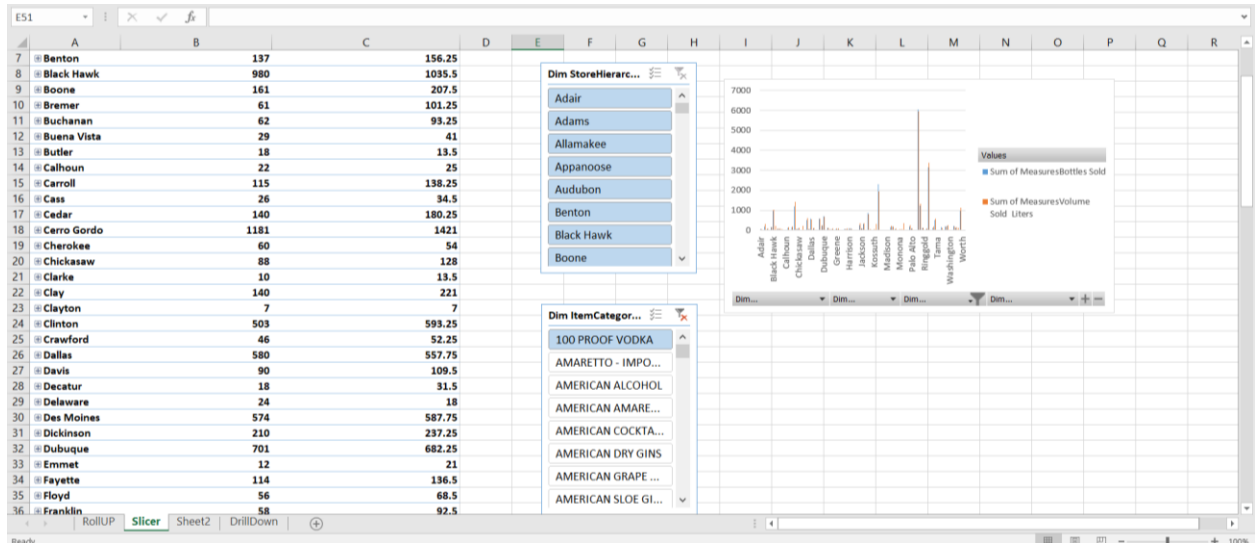
The Drill down operation is the reverse of roll up. It navigates from less detailed data to more detailed data.





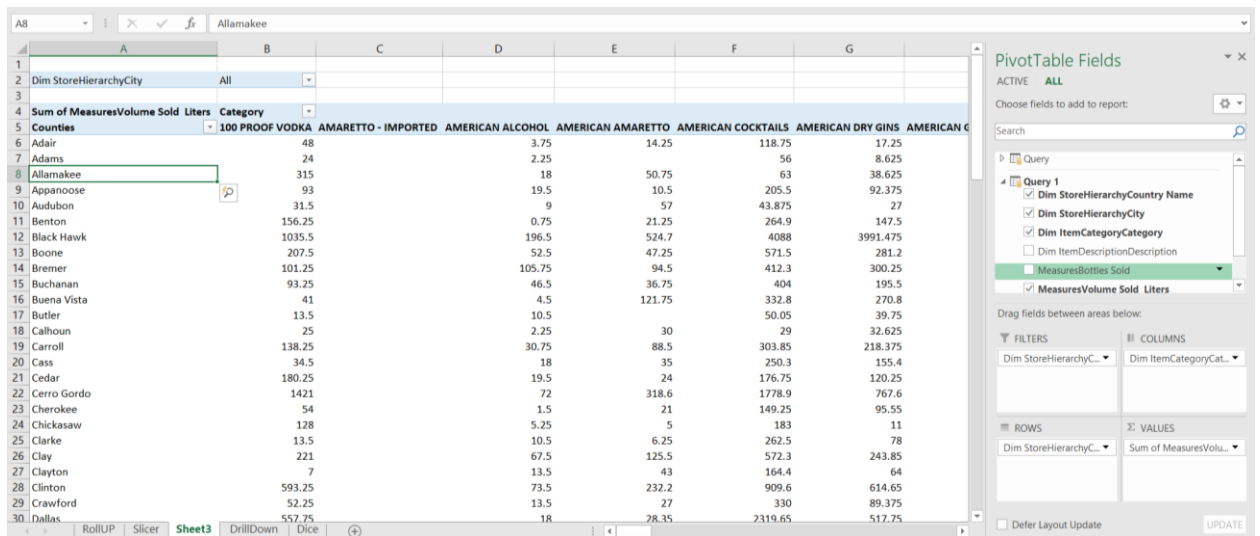
- **Slicing**

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.




SSRS Reports

Report 01:

Report with Matrix

In here yearly sales report store name vs Item description more than 10000 USD had. And there is one parameter called category.



category CREAM LIQUEURS, PL [View Report](#)

Yearly Report Sales had more than 10000 USD

2012

	Costco Wholesale #788	Hy-Vee #3 / BDI / Des Moines	Hy-Vee Wine and Spirits / Iowa City	Sam's Club 6344 / Windsor Heights	Sam's Club 8238 / Davenport
Bacardi Superior Rum		16968.0000			
Bailey's Original Irish Cream	70164.0000		11623.4400	13764.6000	
Rumchata		33330.0000			24637.5000

Report 2: Report with more than one parameter

This report has 3 parameters

- Country name
- City
- Store Number

Report 3: SSRS drill-down report

This report is Monthly bottle sold over the county.

Report 4: SSRS drill-through report

In this report link through the category

