

# Sri Lanka Institute of Information Technology

# Data Warehousing & Business Intelligence Assignment 2

IT Number: IT20142964

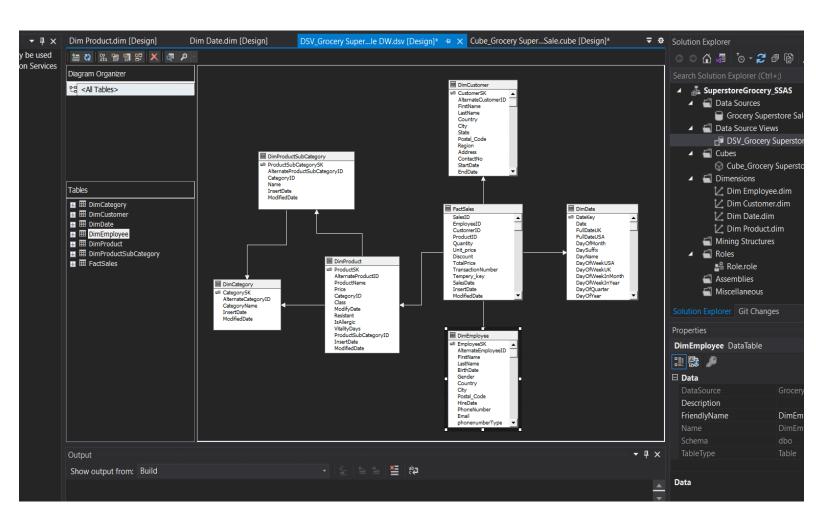
Submitted by: Dulakshi Hansini R.M

#### **Data Source**

- I used Grocery market data set which used in assignment
- In this assignment Grocery\_Market\_DW databse used as my data source(For this purpose use Liquor\_sales\_DW as Data warehouse which implemented in last Assignment.)

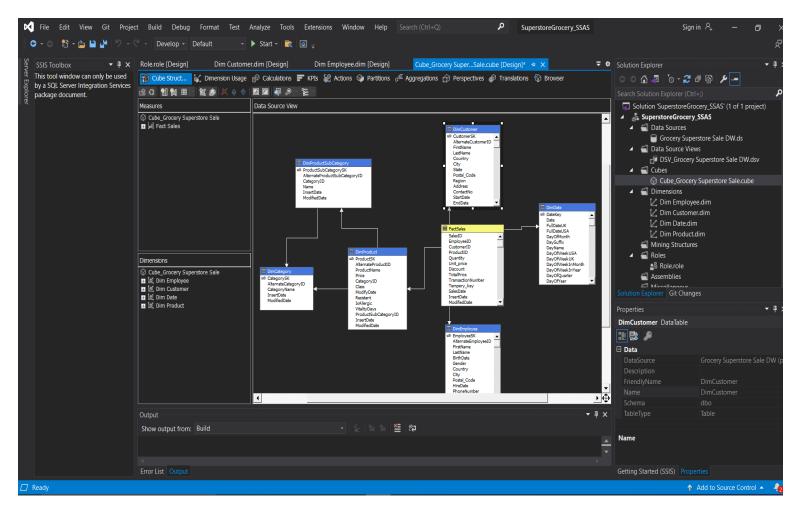
# **SSAS Cube Implementation**

- reated a SSRS project in Microsoft Visual Studio.
- Created a data source called Grocery\_Market\_DW\_DataSource.
- Then created a data source view called Grocery\_Market\_DW\_DataSourceView

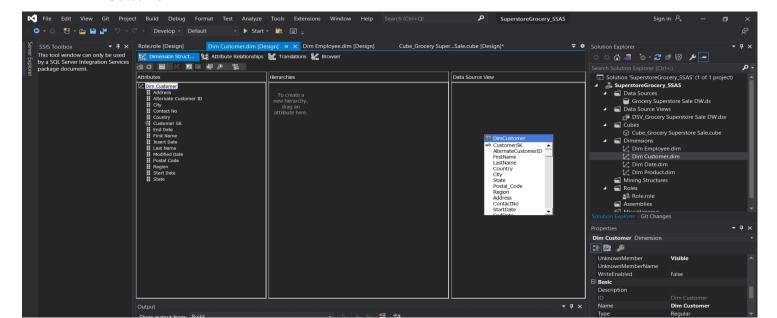


• Then created the cube called Grocery\_Market\_ DW\_Cube.

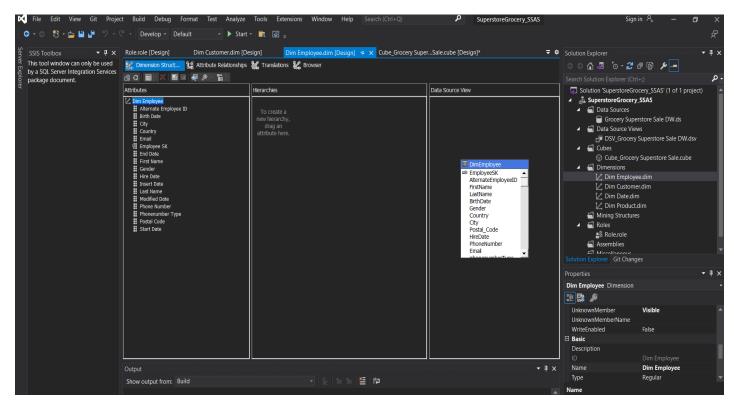
In here I choose Fact Sales as measure group, dimcategory, dimproduct and dimcustomer, dimdate as dimensions



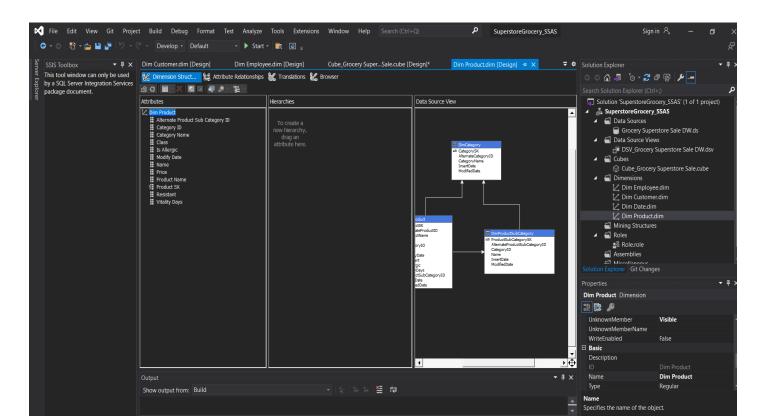
#### **DimCustomer**



#### DimEmployee

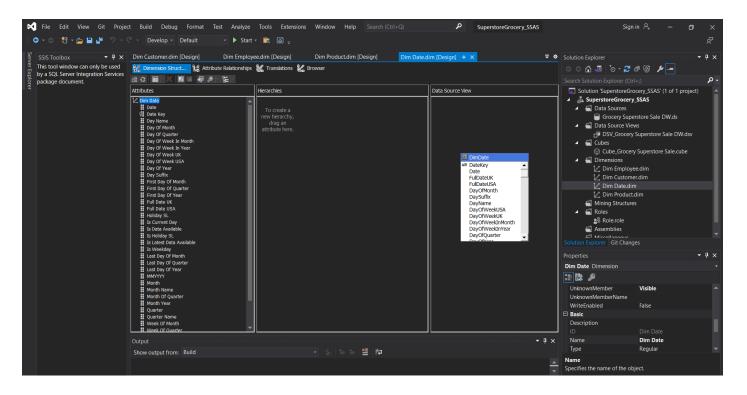


#### **DimProduct**

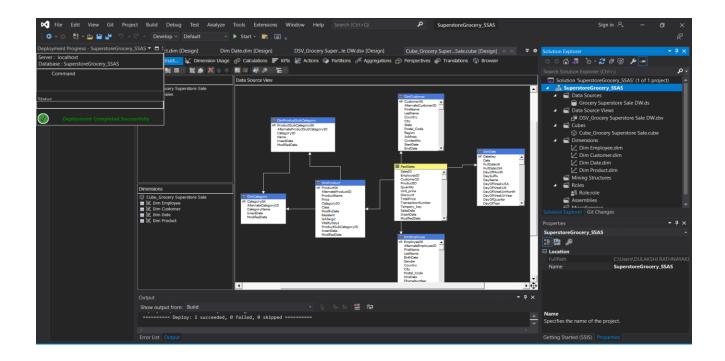


#### **Create KPI**

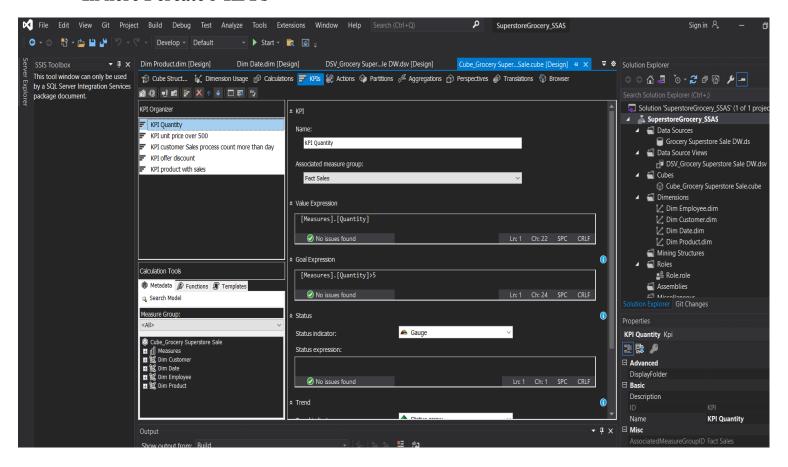
DimDate

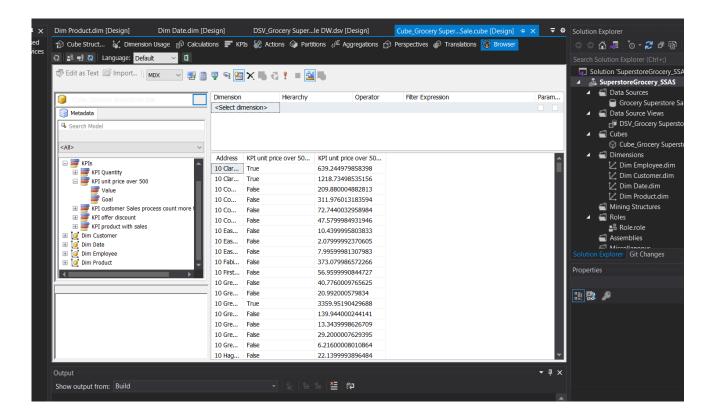


## **Deployment successful**



#### In here I create 5 KPI s

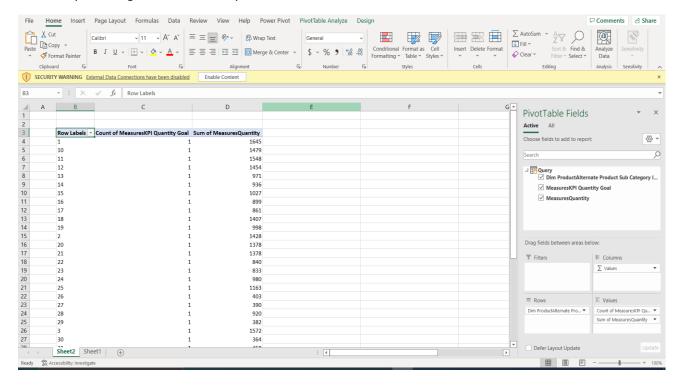




#### **OLAP Operation**

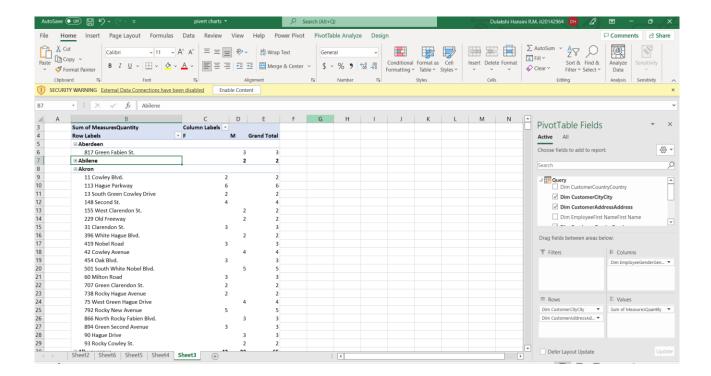
#### • Roll Up

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



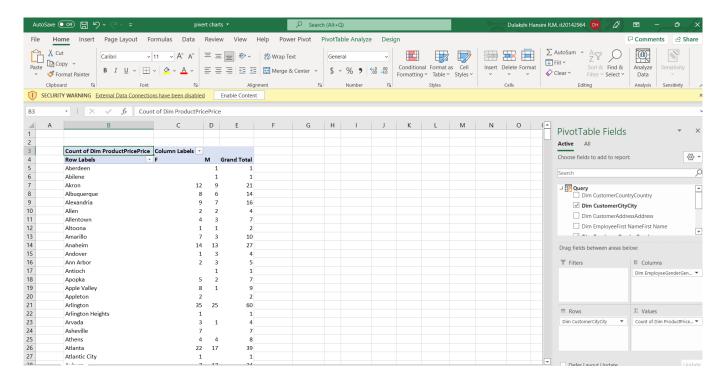
#### • Drill-Down

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



#### Dice

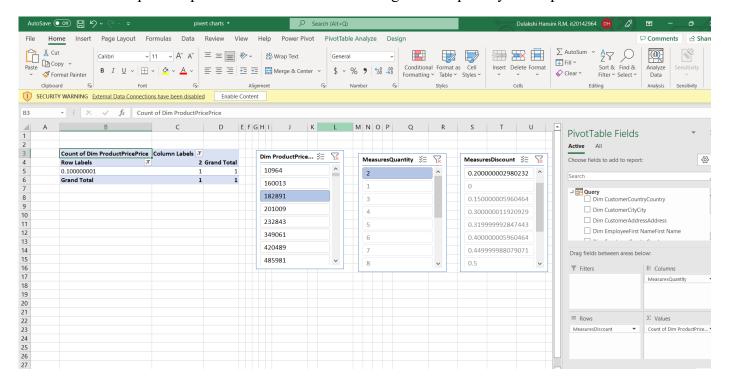
The dice operation defines a sub cube by performing a selection on two or more dimensions



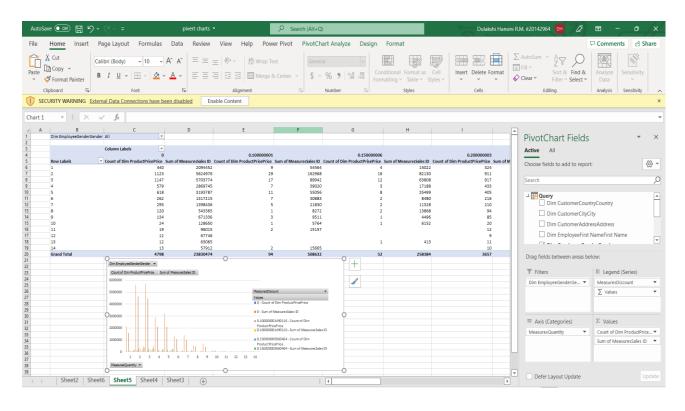
#### Slicing

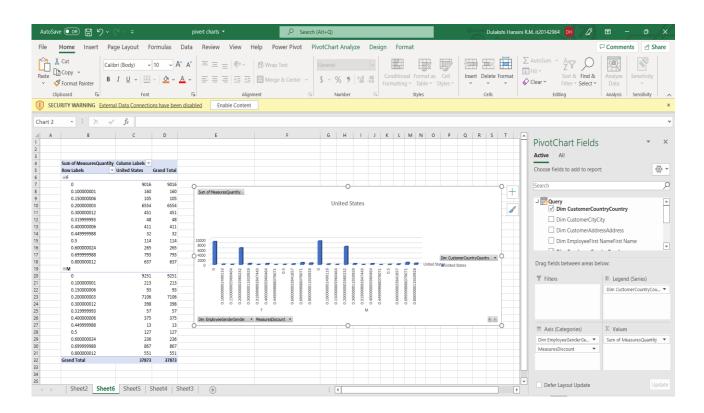
Slice performs a selection on one dimension of the given cube, thus resulting in a sub cube.

this indicate product price and it's discount according to their quantity of the products



In here indicate sales id and it's product price and quantity which offer by discount and it's filtered by gender

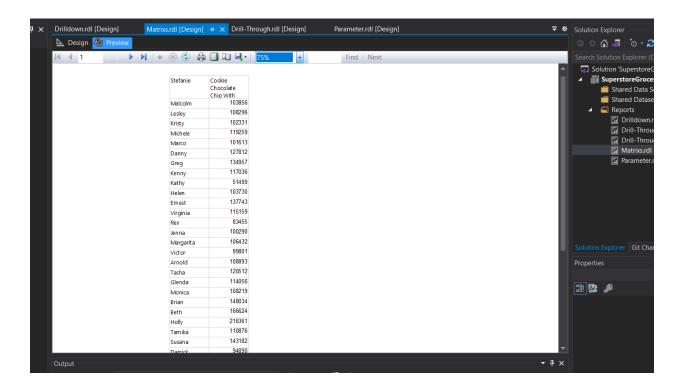




# **SSRS Reports**

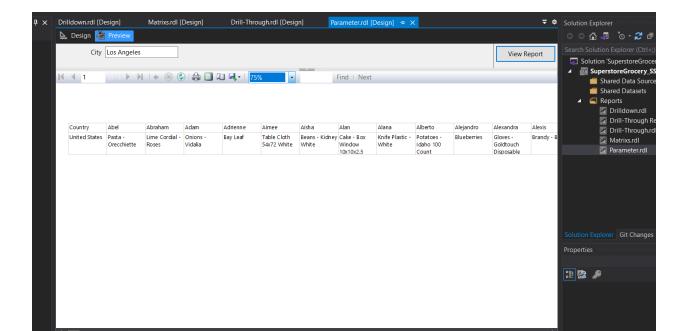
#### Matrix report

Report with Matrix In here yearly sales report customer name vs product name with the price.



#### Parameterized report

Parameterized report with sales report customer name vs product name with the country.



### **Drill down report**

Drill down report with summery of city name and customer name according to their buy products.

