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**Sri Lanka Institute of Information Technology**

Data Warehousing & Business Intelligence

**Assignment 2**

IT Number: IT20142964

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**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

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• 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

Graphical user interface, application

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Graphical user interface

Description automatically generatedDimCustomer

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DimProduct

Graphical user interface

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**Create KPI**

DimDate

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KPI Use for monitoring measures Create KPI Use for monitoring measures

**Deployment successful**

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**In here I create 5 KPI s**

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**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

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* **Drill-Down**

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

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* **Dice**

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

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* **Slicing**

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

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

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Graphical user interface, application, table, Excel

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**SSRS Reports**

**Matrix report**

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

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**Parameterized report**

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

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**Drill down report**

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

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