**Power BI Assignment 5**

1. Explain DAX.

Ans. Data Analysis Expression(DAX): It is programming language that is used in Power Bi for creating calculated columns, measures and custom tables. It is a collection of functions, operators, and constants that can be used in a formula or expression to calculate and return one or more values.

DAX includes some of the functions used in the excel formulas and additional functions designed to work with relational data and perform dynamic aggregation.

It is basically a library of functions and operators which can be combined to build formulas and expressions in PowerBi.

Example: Total Sales = Sum(Sales[SalesAmount])

In the above example, we have the following:

* 1. Measure name : Total Sales
  2. Equal sign (=) operator which represents the beginning of the formula
  3. DAX function Sum which adds all the numbers in the Sales[SalesAmount] column.
  4. Parenthesis () which surrounds an expression which contains one or more arguments.
  5. Referenced table: Sales
  6. Referenced column: SalesAmount

1. Explain datasets, reports, and dashboards and how they relate to each other?

Ans. Datasets: It is a collection of data. Dataset is normally presented in a tabular pattern. Every column describes a particular variable. Dataset describe the values for each variable for unknown quantities such as heigh, weight, volume etc of an object.

Reports: A collection of visualizations that appear together on one or more pages is a report in Power Bi. It is a collection of items that have common motives.

Dashboards: Power Bi dashboard is a single page interface that uses the most important elements of a report to tell a story.

All datasets, report and dashboard are related to each other basis on the following:

* 1. Reports are the visualization of the datasets.
  2. Through multiple reports created on a given dataset one can create a dashboard to highlights the key outcomes, inference or key information on the dashboard.

1. How reports can be created in power BI, explain two ways with Navigation of each.

Ans. In Power BI, reports can be created with visuals that represent different findings and insights from the dataset. Report can have a single visual or multiple pages full of visuals.

Reports can be created by the following ways:

* 1. User can select fields from fields pane onto the report canvas
  2. User can drag the fields from the fields pane onto the report canvas

1. How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps.

Ans. To connect to data in Power BI, follow the below steps:

* 1. From the home option🡪 Select the get data option
  2. From the get data window 🡪 Choose any of the different sources of option to which power bi can connect

To use the content pack to connect to google analytics, follow the below steps:

* In Power Bi desktop, from the home option 🡪 select the get data option
* From the get data window 🡪 select the online services from the categories
* Select google analytics from the selections in the right pane
* At the bottom of the window 🡪 select connect

1. How to import Local files in Power BI? Mention the Steps.

Ans. To import the local files in Power BI, follow the below steps:

* 1. In Power BI, select the Get data option
  2. Under import or connect to data 🡪 Under files click on get
  3. Click on Local file
  4. Choose which file to upload and then click on open
  5. Click upload under upload your excel file to Power BI

1. In Power BI visualization, what are Reading View and Editing view?

Ans. To interact with the reports in Power BI, there are two modes in Power BI: Reading View and Editing view.

Reading view: If viewers are the *business user*, then user are more likely to use Reading view to consume reports created by others. Reading view is your way to explore and interact with reports created by colleagues.

Editing view: It is used by report *designers*, who create the reports and share them with other stakeholders. The user with an editing view can perform the following:

* Creating, editing, renaming, sharing, and deleting reports
* Adding, rearranging, and deleting report pages
* Formatting reports
* Adding visualizations, text boxes, shapes
* Setting up drill through
* Duplicating a report