**Power BI Assignment 5**

1. **Explain DAX.**

*DAX (Data Analysis Expressions) is a formula expression language and can be used in different BI and visualization tools. DAX is also known as function language, where the full code is kept inside a function. DAX programming formula contains two data types: Numeric and Other. Numeric includes - integers, currency and decimals, while other includes: string and binary object.*

*In Power BI, you can use different function types to analyze data, and create new columns and measures.*

*DAX has a number of aggregate functions.*

*Some DAX functions:*

MIN

MAX

Average

SUM

SUMX

DISTINCTCOUNT

COUNT

COUNTA

COUNTROWS

COUNTBLANK

AND

OR

NOT

IF

IFERROR

REPLACE

SEARCH

UPPER

FIXED

CONCATENATE

DATE

HOUR

WEEKDAY

NOW

EOMONTH

ISBLANK

ISNUMBER

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

*Datasets :*

*A data set is a collection of numbers or values that relate to a particular subject. For example, the test scores of each student in a particular class is a data set.*

*Reports:*

*A report is a multi-perspective view into a dataset, with visuals that represent different findings and insights from that dataset*

*Dashboards:*

*A dashboard, allows peoples to pin visuals from several unrelated reports into one review single page, often called a canvas that tells the informations through visualizations.*

| ***Item*** | ***Dashboards*** | ***Reports*** |
| --- | --- | --- |
| *Pages* | *Dashboards are created on only one page* | *Can be created in one or more pages* |
| *Data sources* | *Dashboards are created from multiple datasets or****reports****.* | *Reports are created from a single dataset* |
| *Visualization* | *Dashboards always concentrate on building insights into the data by using graphs, attractive visuals, charts, etc.* | *Reports are not concentrated on the visualization part of the data rather it looks to create summary pages.* |
| *Filters and Slicers* | *You cant add Slicers and Filters as Dashboards are limited to a single page.* | *In reports, we can use many different ways to filter, highlight, and slice.* |
| *User Interactivity* | ***Dashboards****allow a user to pin visuals from different****reports****and datasets onto a single canvas, making it simple to group what’s essential to the user.* | ***Reports****are more focused on being able to visualize and apply transformations to a single dataset.* |
| *See underlying dataset tables and fields* | *In****dashboards****, you can’t see the underlying dataset tables but can export data.* | *While in****Reports****you can see a dataset under the****Data****tab in Power BI Desktop.* |

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

*Step 1: Select a data source. ...*

*Step 2: Design your report. ...*

*Step 3: Save your report..*

*Select Edit to edit the report, then on the menu bar select Buttons > Navigator > Bookmark navigator.*

*Power BI automatically creates a bookmark navigator for you: The bookmark navigator is automatically in sync with your report bookmarks, meaning: Titles of the buttons match the bookmark display names.*

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

*To connect to data, from the Home ribbon select Get data. The Get Data window appears. You can choose from the many different data sources to which Power BI Desktop can connect.*

*On the ribbon, in the External Data group, click Get Data. In the Get Data window, click other from the list of other data sources, click Google Analytics, and then click Connect. Done.*

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

*Click Get Data in the lower left screen. Under Import or Connect to Data > Files, click Get.*

*Then Click Local File. Choose the file from the window then select and then click Open. Done.*

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

*There are two modes for interacting with reports in the Power BI service: Editing view and Reading view. If you are a business user, then you are more likely to use Reading view to consume reports created by others. Editing view is used by report designers, who create the reports and share them with you. Reading view is your way to explore and interact with reports created by colleagues.*