**Power BI Assignment 4**

**1.Explain DAX.**

Data Analysis Expressions (DAX) is a programming language that is used throughout Microsoft 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.

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

Datasets **represent a source of data ready for reporting and visualization**. There are five different dataset types, created in the following ways: Connecting to an existing data model that isn't hosted in a Power BI capacity. Uploading a Power BI Desktop file that contains a model.

Dashboard is **the collection of visuals to tell the story graphically, like charts and graphs**, along with features to interact with the end-user.

Report is generally a detailed summary of the large data set as per the criteria are given by the user.

In the Power BI service, **reports are built on datasets, report visuals are pinned to dashboards, and dashboard visuals link back to reports**

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

A Power BI report is a multi-perspective view into a dataset, with visuals that represent different findings and insights from that dataset. A report can have a single visual or pages full of visuals.

These are the way:-

1. Page Navigation - Page navigation is **the process of moving between pages in a Power BI report**. There are a variety of ways to accomplish this, with some being more useful than others depending on the situation. All of them generally involve an Action on either, a Button, Shapes, or Image.
2. Dynamic Page Navigation - With May 2020 Power BI Desktop update, it has added customized page navigation, which is quite a smart feature. **It enables us to select the specific page from a drop-down list**: Earlier, using bookmarks helped in the page navigation.

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

With Power BI Desktop, you can connect to many different types of data. These sources include basic data sources, such as a Microsoft Excel file. You can connect to online services that contain all sorts of data, such as Sales force, Microsoft Dynamics, Azure Blob Storage, and many more.To connect to data, from the **Home** ribbon select **Get data**.

**To connect to google analytics, follow these steps:-**

* In Power BI Desktop, select Get data from the Home ribbon tab.
* In the Get Data window, select Online Services from the categories in the left pane.
* Select Google Analytics from the selections in the right pane.
* At the bottom of the window, select Connect.

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

Manually import data to Power BI:-

* In Power BI, click Get Data in the lower left screen.
* Under Import or Connect to Data > Files, click Get.
* Click Local File.
* Choose which file to upload and click Open.
* Click Upload under Upload your Excel file to Power BI.
* The message “Your file has been uploaded” should appear.

**6.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.