

POWER BI ASSIGNMENT-5

1. Explain DAX.

-Data Analysis Expressions (DAX) is a formula expression language used in Analysis Services, Power BI, and Power Pivot in Excel.

DAX formulas include functions, operators, and values to perform advanced calculations and queries on data in related tables and columns in tabular data models.

-DAX formulas are used in measures, calculated columns, calculated tables, and row-level security.

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

-A **Power BI Dataset** is a series of Power Query queries that have been shaped in a DAX model. Each dataset can combine different files, database tables and online services all into one tabular model.

-A **power BI Report** is a series of visualizations, filters and static elements on a canvas. Power BI reports are saved as a single PBIX file and connected to a single dataset. Remember, a Power BI dataset can have many data sources.

-Each report can have multiple sheets, just like an Excel workbook.

-In most cases, a report and a dataset are going to have a one to one relationship. A dataset can have one report and a report can have one data set.

-In **Power BI dashboards** are a way of pulling together visualizations from various reports.

A Power BI dashboard is a single page, often called a canvas, that uses visualizations to tell a story. Because it is limited to one page, a well-designed dashboard contains only the most-important elements of that story."

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

Step 1: Install Power BI Desktop for Power BI Report Server.

Step 2: Select a data source.

Step 3: Design your report.

Step 4: Save your report to the report server.

- 1) Create a report from an Excel file in the Power BI service.
- 2) Create a report quickly from a SharePoint list or library.
- 3) Visualize your data from Power Apps and Dynamics 365 apps.
- 4) Interact with autogenerated "quick" reports in the Power BI service.

To create Stacked column chart:

-load the dataset in Power BI desktop

-select the **stacked column chart** from visualizations section

-add the respective fields in **X-axis** & **Y-axis** section,add the legends as well.

4. 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.for Example,select Excel Workbook

-Since this data source is an Excel file, select Excel from the Get Data window, then select the Connect button.

Connecting Power BI with Google Analytics:

- 1) In the left navigation pane, click **Get Data**.
- 2) In the Services box, click Get.
- 3) From the menu of online services, select Google Analytics, and then click Connect.
- 4) Enter the Google Analytics account, property, and view that you want to connect to. Then sign in with your Google Analytics credentials.

- 5) To permit Power BI to connect to Google Analytics, click Accept.
- 6) When the import process completes, you will see a new dashboard, report, and model in the Navigation Pane. Select the dashboard to view your imported data.

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

- 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 on Load options in order to upload the file

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

-The Power BI service has two different modes for interacting with reports:

Reading view for report business users

Editing view for report owners and creators.

You need a Power BI Pro or Premium Per User (PPU) license to share reports and to edit reports created by others.