

# Power BI Assignment 5 (SOLUTIONS)

## 1. Explain DAX.

DAX (Data Analysis Expressions) is a formula language used in Power BI and other Microsoft products for data modelling and analysis. It allows users to create custom calculations, define relationships, and perform complex calculations on data. DAX is similar to Excel formulas but designed for more advanced data analysis tasks.

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

Datasets, reports, and dashboards are interconnected components in Power BI:

- Datasets: Datasets are collections of data that are imported or connected to Power BI from various sources. They serve as the foundation for analysis and reporting, containing tables, columns, and relationships.
- Reports: Reports are interactive visualizations and analyses created using the data from datasets. They consist of visual elements like charts, tables, and graphs, allowing users to explore and analyze data.
- Dashboards: Dashboards are a combination of visualizations and reports. They provide a single view of key metrics and insights, often with real-time data, allowing users to monitor and track performance in a visually appealing manner. Dashboards can be created using visual elements from multiple reports.

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

are two main ways to create reports in Power BI:

#### 1. Power BI Desktop:

- Navigate to the Power BI Desktop application.
- Connect to a data source and import or transform the data.
- Design the report by selecting visualizations, adding fields, and configuring settings.
- Save the report and publish it to the Power BI service for sharing.

#### 2. Power BI Service:

- Navigate to the Power BI service in a web browser.
- Connect to a data source and import or use existing datasets.
- Select "Create Report" and choose visualizations from the Visualizations pane.
- Drag and drop fields onto the report canvas and customize the visuals.
- Save the report and share it with others within the organization.

#### 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 in Power BI, you can follow these general steps:

1. Open Power BI Desktop or navigate to the Power BI service in a web browser.
2. Select the "Get Data" button.
3. Choose the desired data source from the available options (e.g., Excel, SQL Server, Web, etc.).
4. Provide the necessary connection details, such as server name, file location, or credentials.
5. Configure any required data transformations or filters.
6. Preview and load the data into Power BI for analysis and visualization.

To connect to Google Analytics using the Content Pack in Power BI, you can follow these steps:

1. Open Power BI Desktop or navigate to the Power BI service in a web browser.
2. Select the "Get Data" button.
3. Choose "Services" from the available options.
4. Select "Google Analytics" from the list of services.
5. Sign in with your Google Analytics account.
6. Choose the specific Google Analytics account, view, and metrics you want to import.
7. Customize any data transformations or filters as needed.

8. Load the data into Power BI to create reports and visualizations based on Google Analytics data.

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

To import local files in Power BI, you can follow these steps:

1. Open Power BI Desktop or navigate to the Power BI service in a web browser.
2. Select the "Get Data" or "Get Data" button.
3. Choose the file type or data source that matches your local file (e.g., Excel, CSV, Text, etc.).
4. Browse and select the local file from your computer's file system.
5. Configure any import options, such as specifying delimiters or headers.
6. Preview and review the data to ensure it's correctly imported.
7. Apply any necessary data transformations or filters.
8. Load the data into Power BI for analysis and visualization.
9. Save the report or publish it to the Power BI service for sharing and collaboration.

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

**Reading View:** In Power BI, the Reading View is the mode where users can interact with and explore visualizations in a report without making any changes. They can view the data, apply filters, and drill down into the details.

**Editing View:** In Power BI, the Editing View is the mode where users can modify and customize the report. They can add or remove visualizations, change formatting, adjust filters, create calculated measures, and design the layout of the report.