# Power BI Assignment 5

## 1. Explain DAX.

**Ans:** 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.

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

**Ans:** Datasets, reports, and dashboards are all imperative components of information investigation and visualization. They are interconnected in that datasets give the crude information, reports show an examination of that information, and dashboards give a visual representation of the analysis.

A dataset may be a collection of organized information that's organized in a way that permits it to be effectively analyzed. This information can come from different sources such as studies, databases, or even social media stages. The reason of a dataset is to supply exact and dependable information that can be utilized to draw experiences and conclusions.

Reports are a way of displaying the discoveries from an examination of a dataset. A report can take numerous shapes, such as a composed report, a introduction, or indeed a visual infographic. The reason of a report is to summarize the key discoveries of the examination and give bits of knowledge into the meaning and suggestions of the data.

Dashboards are a visual representation of the information contained in a dataset and the insights provided by the examination in a report. A dashboard regularly presents the information within the shape of charts, charts, and other visualizations, permitting clients to rapidly get it and decipher the data. Dashboards regularly permit clients to connected with the information and customize the visualizations to meet their particular needs.

In a nutshell, datasets, reports, and dashboards are all vital components of information investigation and visualization. Datasets give the crude information, reports give the examination, and dashboards give a visual representation of that investigation. Together, they offer assistance businesses
and organizations make data-driven choices and accomplish their objectives.

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

**Ans:** There are several ways to create reports in Power BI, including:

Power BI Desktop: This is the primary way to create reports in Power BI. It is a desktop application that allows you to connect to data sources, create visualizations, and design your reports.

Power BI Service: You can also create reports directly in the Power BI service, which is a cloud-based service. This option is useful if you want to create reports on the go or collaborate with other users in real-time.

Power BI Mobile: Power BI Mobile is a mobile application that allows you to view and interact with your reports on your mobile device. You can create reports directly in the app, but this option is more limited than the desktop or service options.

Power BI Report Builder: Power BI Report Builder is a standalone application that allows you to create paginated reports, which are reports that are designed to be printed or exported to PDF. This option is useful if you need to create reports with complex layouts or if you need to print your reports.

## Steps to create reports using Power BI desktop:

Power BI Desktop is a powerful tool that allows users to create interactive reports and dashboards. Here are the general steps to create reports using Power BI Desktop:

Connect to Data: Power BI Desktop allows you to connect to a wide variety of data sources such as Excel spreadsheets, CSV files, SQL databases, and cloud-based sources like Microsoft SharePoint and Azure. To connect to your data, click on the "Get Data" button on the Home tab, select your data source and enter the required credentials to connect.

Import and Transform Data: After connecting to your data source, Power BI Desktop allows you to transform the data as needed. This includes data cleaning, data shaping, and data modeling. You can use the Query Editor to apply filters, remove duplicates, or merge data from multiple sources.

Create Visualizations: Once your data is imported and transformed, you can create visualizations like charts, tables, and maps. Select the type of visualization you want to create from the Visualizations pane, drag and drop fields from the Fields pane onto the visualizations to populate them with data.

Design Report Pages: Power BI Desktop allows you to create multiple report pages to organize and display your visualizations. You can add text boxes, images, and shapes to your report pages to provide additional context to your data.

Add Interactivity: Power BI Desktop allows you to add interactive features like filters, slicers, and drill-downs to your report pages. These features allow users to explore the data and filter it based on their preferences.

Publish Your Report: Once you have designed and built your report, you can publish it to the Power BI service, where you can share it with others and collaborate with your team.

## Steps to create reports using Power BI Mobile:

Power BI Mobile is a mobile app that allows users to access and view Power BI reports and dashboards on their mobile devices. Here are the general steps to access and view reports using Power BI Mobile:

Download and Install the Power BI Mobile App: The Power BI Mobile app is available for download on the App Store for iOS devices and Google Play Store for Android devices. Download and install the app on your mobile device.

Sign In to Your Power BI Account: Launch the Power BI Mobile app and sign in using your Power BI account credentials. If you don't have a Power BI account, sign up for a free trial or purchase a subscription.

Navigate to Your Report: Once you have signed in to your account, you can navigate to the report you want to view. You can search for the report by name or browse through the available dashboards and reports.

Interact with the Report: Once you have opened the report, you can interact with it by using the touch interface of your mobile device. You can tap on visualizations to drill down or filter data, swipe to switch between report pages, and pinch to zoom in and out of visualizations.

Share and Collaborate: Power BI Mobile allows you to share reports and dashboards with your colleagues and collaborate on the data. You can share the report through email, message, or other social media platforms.

**4.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, you can follow these steps:

Open Power BI Desktop: Open the Power BI Desktop application on your computer.

Click on "Get Data": Click on the "Get Data" button on the Home tab of the ribbon.

Choose a data source: Choose the data source you want to connect to from the list of options. In this case, choose "Google Analytics" from the list.

Connect to Google Analytics: You will be prompted to enter your Google Analytics credentials. Once you have entered your credentials, click "Connect" to connect to your Google Analytics account.

Select the data you want to import: Choose the data you want to import by selecting the tables or views you want to include in your report.

Load the data into Power BI: Once you have selected the data you want to import, click the "Load" button to load the data into Power BI.

To use the content pack to connect to Google Analytics, you can follow these steps:

Open Power BI: Open the Power BI service on your web browser.

Click on "Get Data": Click on the "Get Data" button on the left-hand side of the screen.

Select the Google Analytics content pack: Scroll down the list of data sources until you see the "Google Analytics" content pack. Click on the content pack to select it.

Enter your Google Analytics credentials: Enter your Google Analytics credentials to connect to your Google Analytics account.

Select the data you want to import: Choose the data you want to import by selecting the tables or views you want to include in your report.

Load the data into Power BI: Once you have selected the data you want to import, click the "Load" button to load the data into Power BI.

These steps should allow you to connect to your Google Analytics data using Power BI.

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

### Ans:

You can import local files in Power BI by following these steps:

Open Power BI Desktop: Open the Power BI Desktop application on your computer.

Click on "Get Data": Click on the "Get Data" button on the Home tab of the ribbon.

Choose a data source: Choose the data source you want to import from the list of options. In this case, choose "File" from the list.

Select the type of file: Select the type of file you want to import, such as Excel, CSV, or Text/CSV. You can also choose "Folder" if you want to import all the files in a folder.

Browse for the file: Browse for the file you want to import by navigating to its location on your computer. You can select multiple files by holding down the Ctrl key and clicking on the files you want to import.

Configure the import options: Once you have selected the file(s) you want to import, you can configure the import options. You can choose whether to import the data as a table or a report, select the data to import, and specify any transformations or filters you want to apply.

Load the data into Power BI: Once you have configured the import options, click the "Load" button to load the data into Power BI.

These steps should allow you to import local files into Power BI and start creating reports and visualizations based on that data.

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

In Power BI, the Reading View and Editing View are two different modes of visualization that allow users to interact with and modify their reports.

The Reading View is the default mode when you open a report in Power BI. This view is designed for viewing and analyzing data, and allows users to interact with the visualizations by filtering, sorting, and highlighting data points. Users can also drill down into the data to get more detailed information.

The Editing View, on the other hand, is a mode that allows users to modify the report and its visualizations. In this view, users can add or remove visualizations, change the layout of the report, and apply formatting to make the report more visually appealing. Users can also add or remove data sources, create calculated columns, and modify queries to get the data they need for their report.

Overall, the Reading View and Editing View are two different modes that allow users to interact with their reports in different ways. The Reading View is designed for analyzing data, while the Editing View is designed for modifying the report and its visualizations to create a more customized experience.