**Power BI Assignment 5**

1. **Explain DAX.**

DAX stands for Data Analysis Expressions. It's a formula language used in Power BI and Microsoft Excel Power Pivot. DAX helps you create custom calculations for data analysis, like calculating totals, averages, or performing complex aggregations. It's powerful for manipulating and summarizing data in your reports and dashboards.

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

* **Datasets:** These are the source of your data in Power BI. They can come from various sources like Excel files, databases, or online services.
* **Reports:** Reports in Power BI are visualizations created from your datasets. They include charts, graphs, and tables that represent your data in meaningful ways.
* **Dashboards:** Dashboards are a collection of visuals from one or more reports. They provide a high-level overview and can be customized to show key metrics and insights. Dashboards are often used for monitoring and decision-making.

Datasets provide the raw data, reports visualize and analyze this data, and dashboards present summarized insights from reports in a consolidated view.

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

* **Method 1: Power BI Desktop** : Open Power BI Desktop > Get Data to import data > Create visualizations using the Fields pane > Arrange visuals on the canvas > Save the report.
* **Method 2: Power BI Service (Web)** : Login to Power BI Service > Select a dataset > Click on Create > Choose Report > Drag and drop fields onto the canvas > Save the report.

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

**Connecting to Data:**

* Open Power BI Desktop or Power BI Service.
* In Power BI Desktop: Click on 'Get Data' > Select the data source (e.g., Excel, SQL Server).
* In Power BI Service: Click on 'Get Data' > Choose the data source from available options.

**Using Content Pack (Google Analytics):**

* In Power BI Service: Go to 'Get Data' > Select 'Services' > Choose 'Google Analytics'.
* Sign in with your Google Analytics account.
* Select the views (website profiles) you want to connect to.
* Customize the data import options (date ranges, metrics, dimensions).
* Load the data into Power BI for visualization and analysis.

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

* Open Power BI Desktop.
* Click on 'Get Data' > Choose 'File' > Select the file type (e.g., Excel, CSV).
* Navigate to the location of your local file.
* Select the file and click 'Import' or 'Load' after configuring import settings like sheet selection or data transformation (if needed).
* Power BI will import the data from your local file into the dataset.

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

* **Reading View:** This view allows users to interact with the report/dashboard without making any changes. Users can view the data, interact with filters, and explore visuals as designed by the report creator.
* **Editing View:** This view is where report creators make changes to the report/dashboard layout, visuals, and data connections. It provides access to editing tools like adding new visuals, modifying existing ones, changing data sources, and adjusting report settings.