Power BI Assignment 5

1. Explain DAX.

Ans. DAX, which stands for Data Analysis Expressions, is a formula language used in Power BI and other Microsoft applications like Excel, Power Pivot, and SQL Server Analysis Services. It is used to create custom calculations and aggregations on the data within a data model.

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

Ans. Datasets, reports, and dashboards are all components of business intelligence systems that help organizations to analyze and understand their data.

A dataset is a collection of data that has been organized in a specific way, typically in a tabular format. It contains the raw data that is used to generate reports and dashboards.

Reports are generated by aggregating and summarizing data from one or more datasets. Reports are typically designed to answer specific business questions or to provide insights into specific areas of the organization. Reports can be in a variety of formats, including tables, charts, and graphs.

Dashboards are visual representations of key performance indicators (KPIs) and other important metrics. Dashboards typically include a combination of charts, graphs, and other visual elements that are designed to quickly convey information about the health of the business. Dashboards are usually interactive and allow users to drill down into the underlying data to investigate issues or to identify opportunities for improvement.

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

Ans. There are two main ways to create reports in Power BI:

Drag-and-drop method:

This is the most common way to create a report in Power BI. Follow the below steps: Open the Power BI Desktop application. Connect to your data source and select the fields you want to include in your report. Drag and drop the desired fields onto the canvas. Choose the type of visual you want to use, such as a bar chart, table, or pie chart, and customize it as per your preference. Add additional visuals as needed. Arrange and format your visuals to create a cohesive report. Save your report and publish it to the Power BI service to share with others.

Creating Reports from Scratch:

This method is useful when you want to create a report from scratch, using custom visuals or when you need more control over the layout of your report. Follow the below steps: Open the Power BI Desktop application.

Click on the "New Report" option from the Home tab. Start by adding a blank page or template to the report. Add visuals to the report using the "Visualizations" pane and customize them as per your preference. Add additional visuals as needed. Arrange and format your visuals to create a cohesive report. Save your report and publish it to the Power BI service to share with others. Navigation: To navigate through the report, you can use the "Pages" or "Visualizations" panes. The "Pages" pane allows you to move between pages in your report, while the "Visualizations" pane provides access to all the visuals on the current page. You can also use the "Filters" pane to apply filters to your report and focus on specific data. Additionally, the "Bookmark" feature allows you to save the current state of your report for future reference.

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 and click on "Get Data" from the Home tab.

Select the data source you want to connect to, such as Excel, SQL Server, or a web source. Enter the required credentials and connection details, and select the tables or data you want to import. Click on "Load" to load the data into Power BI.

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

Click on "Get Data" from the Home tab in Power BI Desktop.

Select "Services" and then "Google Analytics" from the list of available data sources.

Enter your Google Analytics account details and click on "Sign In".

Choose the website you want to connect to, and select the dimensions and metrics you want to include in your report. Click on "Load" to load the data into Power BI.

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

Ans. To import local files in Power BI, follow these steps:

Open Power BI Desktop.

Click on the "Get Data" button on the Home ribbon. In the "Get Data" window, select "File" and click "Connect." Select the type of file you want to import from the list of options (e.g. Excel, CSV, text file). Browse to the location of the file you want to import and select it.

If necessary, configure the import settings for the file in the "Preview" window, such as selecting a specific sheet or specifying delimiters for CSV files. Click on "Load" to import the data into Power BI.

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

Ans. Reading View is the default view of a published report in Power BI. It allows users to view and interact with the visualizations that have been created by the report designer. In this view, users can filter and drill down into the data, view the underlying data, and interact with the visualizations.

Editing View, on the other hand, is the mode in which the report designer creates or modifies the report. In this view, the designer can add new visualizations, modify existing ones, add data sources, and create new calculations or measures. The Editing View is only accessible to those who have the appropriate permissions to edit the report.