
Power BI Assignment 5

1. Explain DAX.

DAX (Data Analysis Expressions):

Definition: Data Analysis Expressions (DAX) is a formula language used in Power BI, Excel, and other Microsoft tools for creating custom calculations and aggregations in data models. It is primarily used in Power BI for creating calculated columns, measures, and tables.

Key Points:

- DAX formulas are similar to Excel formulas but are designed for more complex data analysis tasks.
- DAX functions are used for creating custom calculations, aggregations, and manipulating data within Power BI.

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

Datasets, Reports, and Dashboards:

- **Dataset:**
 - A dataset in Power BI is a collection of data that you import or connect to, and it serves as the foundation for creating visualizations.
 - It can include one or more tables and may have relationships between tables.
- **Reports:**
 - A report is a collection of visualizations, charts, and tables created using data from a dataset.
 - It is the canvas where you design and arrange visual elements to derive insights from the data.
- **Dashboards:**
 - A dashboard is a collection of visualizations and reports.
 - Dashboards provide a high-level overview of key metrics and insights in a consolidated and interactive format.

Relationship:

- Datasets provide the raw data.
 - Reports utilize the data to create visualizations.
 - Dashboards aggregate visualizations from multiple reports into a unified view.
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3. How reports can be created in power BI, explain two ways with Navigation of each.

Creating Reports in Power BI:

Two Ways:

1. Power BI Desktop:

- Download and install Power BI Desktop.
- Open Power BI Desktop, connect to your data source, and create visualizations.
- Design and arrange visualizations on the canvas.
- Save the report and publish it to the Power BI Service.

2. Power BI Service:

- Directly create reports in the Power BI Service.
- Upload your dataset or connect to existing datasets.
- Use the online report editor to design visualizations.
- Save the report and create dashboards directly in the Power BI Service.

4. 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 in Power BI:

Connecting to Google Analytics using Content Pack:

1. Open Power BI Desktop or Power BI Service.
 2. In Power BI Desktop, go to "Home" > "Get Data" > "More..."
 3. In Power BI Service, click on "Get Data."
 4. Choose "Online Services" > "Google Analytics."
 5. Enter your Google Analytics account details.
 6. Select the desired Google Analytics view.
 7. Load or transform the data as needed.
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5. How to import Local files in Power BI? Mention the Steps.

Importing Local Files in Power BI:

1. Open Power BI Desktop or Power BI Service.
2. In Power BI Desktop, go to "Home" > "Get Data" > Choose the type of local file (Excel, CSV, etc.).
3. In Power BI Service, click on "Get Data" > Choose the type of local file.
4. Browse to and select the local file.
5. Load or transform the data as needed.

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

Power BI Visualization Views:

- **Reading View:**
 - The view when you interact with a published report or dashboard in the Power BI Service.
 - Allows users to explore and interact with visualizations but not modify the layout or structure.
 - **Editing View:**
 - The view in Power BI Desktop or Power BI Service report editor.
 - Allows users to design, modify, and arrange visualizations on the canvas.
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