1.Explain DAX.

Data Analysis Expressions(DAX) are the collection of formulas, functions, operators, and constants that allows a user to create measures, dimensions, and custom tables. They return one or more values and are used to solve data analysis problems, creating a new relationship between different data variables.

DAX language is very useful as it allows the Data Analysts to perform advanced calculations and discover a hidden pattern in an unstructured dataset. The complete code of an expression is always a function or nested function with conditional statements, value references, formulas, loops, etc. It’s important to formulate as they are evaluated from the innermost to the outermost function of the expressions.

There are two primary data types in Power BI DAX functions:

* **Numeric:** numeric data types include decimals, currency values, integers, etc.
* **Non-numeric:** it consists of strings, binary objects, etc.

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

Datasets are a collection of data used to create reports and dashboards. Reports are visual representations of data created from datasets. Dashboards are a collection of visualizations and reports used to monitor key performance indicators (KPIs) and data trends. They all work together to provide insights into data and help businesses make informed decisions.

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

There are two ways to create reports in Power BI:

**1. Create a report in Power BI Desktop:**

- Open Power BI Desktop and click on "Get Data" to select the data source.

- Choose the data source and connect to it.

- Once connected, select the fields you want to use in the report and drag them onto the report canvas.

- Choose the type of visualization you want to use and customize it as per your need.

- Add filters, slicers, and other formatting options to make your report more interactive.

- Save the report and publish it to the Power BI service for sharing with others.

**2. Create a report in the Power BI service:**

- Open the Power BI service and click on "Get Data" to select the data source.

- Choose the data source and connect to it.

- Once connected, select the fields you want to use in the report and drag them onto the report canvas.

- Choose the type of visualization you want to use and customize it as per your need.

- Add filters, slicers, and other formatting options to make your report more interactive.

- Save the report and share it with others by publishing it to the power BI service.

1. 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-**

1. Click on "Get Data" and
2. Select the data source to connect to.
3. Then, enter the credentials to connect to the data source and select the data to be used in the report.
4. After that, create visualizations based on the data to generate insights.

**To use the Google Analytics content pack in Power BI-**

1. Click on "Get Data" and select "Services" from the list.
2. Then, select "Google Analytics" and enter the credentials to connect to the account.
3. After that, select the data to be used in the report
4. Create visualizations based on the data to generate insights.

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

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

1. Open Power BI Desktop and click on "Get Data" from the Home tab.
2. Select the "File" option and choose the file type you want to import, such as Excel, CSV, or Text/CSV.
3. Navigate to the location of the file on your computer and select it.
4. Choose the options for importing the file, such as whether to include headers or whether to transform the data.
5. Click on "Load" to import the data into Power BI.
6. Once the data is loaded, you can create visualizations and reports based on the data.

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

In Power BI visualization, the reading view is a view-only mode that allows users to see the report without making any changes. The edit view is a mode that allows users to make changes to the report, including adding new visualizations, changing the data source, and editing existing visualizations. In the edit view, users can also add filters, slicers, and formatting options to make the report more interactive.