**Power BI Assignment 5**

1. **Explain DAX.**

**Ans.** DAX is a collection of functions, operators, and constants that can be used in a formula, or expression, to calculate and return one or more values. DAX helps you create new information from data already in your model.

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.

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

**Ans. Dataset** refers to a file that contains one or more records. A Power BI **Dataset** is a series of Power Query queries that have been shaped in a DAX model. Each dataset can combine different files, database tables and online services all into one tabular model.

**Dashboards** are created from multiple datasets or reports. Dashboards always concentrate on building insights into the data by using graphs, attractive visuals, charts, etc.

**Reports** are not concentrated on the visualization part of the data rather it looks to create summary pages.

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

**each.**

**Ans.** Create a data source. That connects to a file, like a .csv, or a database. Apply functions

and aggregations if required.

Apply filter and Visualizations of Data and Analyse the Visualization. And Creating the Report based

on the Analysis and Visualizations.

For example, let us consider financial data.

Apply a filter to select only negative values (payments)

Apply a function, such as an aggregation if required

Alternatively, at this point, you could create a data model. For example, if you have sales and

inventory movements in two data sources you can model that. You would create a model to

show the common element between tables: product number.

create a visualization. In this example, we will have a table of transactions. A table which is a

row and column display. We will also have a card (like a text box) to show a single number,

the maximum transaction amounts.

**4. How to connect to data in Power BI? How to use the content pack to connect to**

**google analytics? Mention the steps.**

**Ans.** Launch Power BI Desktop

Once you install Power BI Desktop, launch the application so it's running on your local computer.

The canvas is where you create visuals and reports from your data.

Power BI Desktop with blank canvas

Connect to data

With Power BI Desktop, you can connect to many different types of data. These sources include

basic data sources, such as a Microsoft Excel file. You can connect to online services that contain

all sorts of data, such as Salesforce, Microsoft Dynamics, Azure Blob Storage, and many more.

To connect to data, from the home ribbon select Get data.

Get Data on Home ribbon

The Get Data window appears. You can choose from the many different data sources to which

Power BI Desktop can connect.

select Datafile from the Get Data window, then select the Connect button.

Power BI prompts you to provide the location of the Data file to which to connect. Select that file,

and then select Open.

Power BI Desktop then loads the workbook and reads its contents and shows you the available data

in the file using the Navigator window. In that window, you can choose which data you would like

to load into Power BI Desktop. Select the tables by marking the checkboxes beside each table you

want to import. Import both available tables.

Select data in Navigator window

Once you've made your selections, select Load to import the data into Power BI Desktop.

View data in the Fields pane

Once you've loaded the tables, the Fields pane shows you the data. You can expand each table by

selecting the arrow beside its name. In the following image, the financials table is expanded, showing

each of its fields.

And You've connected to data in Power BI Desktop, loaded that data, and now you can see all the

available fields within those tables.

**Connecting Power BI with Google Analytics**

Launch Power BI Desktop. On the ribbon, in the External Data group, click Get Data.

From the drop-down menu, click More…

In the Get Data window, click Other. From the list of other data sources, click Google Analytics, and

then click Connect.

Read the information about connecting to a third-party service, and then click Continue.

Google Analytics asks Power BI Desktop for permission to connect to your data. Click Accept.

Power BI Desktop shows that you’re signed in to Google Analytics. To load your Google Analytics data,

click Connect.

Power BI Desktop loads the Google Analytics data. Now you can start creating your amazing dynamic

reports.

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

**Ans.** 1. In Power BI, click Get Data in the lower left screen.

2. Under Import or Connect to Data > Files, click Get.

3. Click Local File.

4. Choose which file to upload and click Open.

5. Click Upload under Upload your Excel file to Power BI.

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

**Ans.** The Power BI service has two different modes for interacting with reports:

**Reading View** for report business users and **Editing view** for report owners and creators.

In **Editing view**, you have flexibility in both exploring and designing a report.