**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. Stated more simply, DAX helps you create new information from data already in your model.**

**It is designed to be simple and easy to learn while exposing the power and flexibility of tabular models. In a way, you could compare it with Excel formulas on steroids. Using DAX will truly unleash the capabilities of Power BI.**

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

ANS. DATASET = **A dataset is a collection of data that you import or connect to. Power BI lets you connect to and import all sorts of datasets and bring all of it together in one place. Datasets can also source data from dataflow**

**Datasets are associated with workspaces and a single dataset can be part of many workspaces. When you open a workspace, the associated datasets are listed under the Datasets tab. Each listed dataset is a source of data available for one or more reports, and the dataset may contain data that comes from one or more sources. For example, an Excel workbook on OneDrive, or an on-premises SSAS tabular dataset, or a Salesforce dataset. There are many different data sources supported, and we're adding new ones all the time.**

2.REPORT = **A power BI report is a series of visualizations, filters and static elements on a canvas. Power BI reports are saved as a single PBIX file and connect to a single dataset. Remember, a Power BI dataset can have many data sources.**

1. DASHBOARD = **Dashboards are a way of pulling together visualizations from various reports. When you think dashboard, you are probably thinking something like Microsoft’s  A Power BI dashboard is a single page, often called a canvas, that uses visualizations to tell a story. Because it is limited to one page, a well-designed dashboard contains only the most-important elements of that story.**
2. How reports can be created in power BI, explain two ways with Navigation of each.

4.ANS . **Start by getting your data. There are a number of ways to import data from within your organization, file directories, and databases.**

**The dataset will appear in your workspace in Power BI Service. An easy way to start analyzing the data is to select ‘Get Quick Insights’ from the menu. A dashboard is generated whilst you work on the data.**

**Next, select Create Report to open the report builder. There are three elements in this area:**

**Canvas. This area is blank until visuals are added**

**Visualizations pane: Use to add and edit charts.**

**Fields pane. A list of the fields in your dataset, based on the columns in your dataset.**

**To start building a report, you can either select the relevant fields from your data or pick a visualization. The visualization is displayed on the blank canvas.**

**To add a field to your report, simply click the relevant field. Power BI will automatically add the field to the right area in your chart. You can also drag and drop fields into the axis, legend, and values area.**

1. 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, from the Home ribbon select Get data.**

**The Get Data window appears. we can choose from the many different data sources to which Power BI Desktop can connect. In this quickstart, use the Excel workbook**

**Since this data source is an Excel file,csv files or antother select required data format from the Get Data window, then select the Connect button.**

**Power BI prompts you to provide the location of the Excel file to which to connect. The downloaded file is called *Financial Sample*. 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.**

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

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

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

1. **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. The message “Our file has been uploaded” should appear.**

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

**ANS READING VIEW : There are two modes for interacting with reports in the Power BI service: Editing view and Reading view. If you are a business user, then you are more likely to use Reading view to consume reports created by others. Editing view is used by report designers, who create the reports and share them with you. Reading view is your way to explore and interact with reports created by colleagues.**

**EDITING VIEW :** **Editor lets us see the code that you’re creating with Power Query Editor at each step of the editing process. At any given time while you edit, you can click on Advanced Editor and watch the code update. Advanced Editor uses Power Query Formula language, otherwise called Power Query M language or simply “M.”**