**Assignment 5**

1. **Explain DAX.**

Data Analysis Expressions (DAX) is a formula expression language used in Analysis Services, Power BI. DAX formulas include functions, operators, and values to perform advanced calculations and queries on data in related tables and columns in tabular data models.

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

**Datasets –** A dataset is a collection of data that import from the different sources. It is used to create a report in Power BI.

**Reports**- A Power BI report is one or more pages of visualizations such as line charts, maps, and tree maps. All of the visualizations in a report come from a single dataset.

**Dashboards** - A dashboard is something you create in the Power BI service or something a colleague creates in the Power BI service and shares with you. It is a single canvas that contains zero or more tiles and widgets.

Dataset is the data which is used to create a report in Power BI. Reports shows the data visualization to the stakeholder or colleague. When all the reports are shown on the single page it is called as Dashboard.

1. **How reports can be created in power BI, explain two ways with Navigation of each.**
2. **Power BI Desktop -** From the welcome screen, select Get Data Or on the Home tab, select Get Data. Select your data source. In Visualizations, select  chart. Drag the field to be counted to the Values well. If it's not a numeric field, Power BI Desktop automatically makes it a Count of the value. Drag the field to group on to the Group well. By repeating this process anyone can create a report.
3. **Power BI service -** In the navigation pane in the Power BI service, you can select the Create button that opens a page where you can select your data source. It's also accessible from the New report button on Home. Then paste the data and there is one button which is written auto generate the report. It helps you to create a report very easily.
4. **How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps.**

* In the left navigation pane, click Get Data.
* From the menu of online services, select Google Analytics, and then click Connect.
* Enter the Google Analytics account, property, and view that you want to connect to. Then sign in with your Google Analytics credentials.
* To permit Power BI to connect to Google Analytics, click Accept.
* When the import process completes, you will see a new dashboard, report, and model in the Navigation Pane. Select the dashboard to view your imported data.

1. **How to import local files in Power BI? Mention the steps.**

* In the left navigation pane, click Get Data.
* From the sources select the option Excel, Folder, etc.
* Select the tables from the file and then load the data.

1. **In Power BI visualization, what are Reading View and editing 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. Even in Reading view, the content isn't static. You can dig in, looking for trends, insights, and other business intelligence.