**Power BI Assignment 5**

1. Explain DAX.
2. Explain datasets, reports, and dashboards and how they relate to each other?
3. How reports can be created in power BI, explain two ways with Navigation of each.
4. How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps.
5. How to import Local files in Power BI? Mention the Steps.
6. In Power BI visualization, what are Reading View and Editing view?

**1. Explain DAX:- Data Analysis Expression:-**It is a formula expression language used in analysis services, Power BI, Power Pivot in Excel. DAX functions, operators, and values to perform advanced calculations and queries on data in related tables and columns in tabular data model.

**2. DATASETS**: 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. Data sets can also source data from data-flows. Datasets are associated with workspaces.

**REPORTS**: A Power BI report is Multi-perspective view into a dataset, with visuals that represent findings and insights from that datasets. A report can have single Visual or many pages full of visuals.

**DASHBOARD:** A Power BI Dashboard is a single page, often called a canvas that use visualizations to tell a story. Because the dashboard is limited to one page, a well-designed dashboard contains only the most important elements of that story. A dashboard connect different tables and columns to create a meaningful visualization.

**Relation of Datasets and Reports and Dashboard:-** 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. **Reports in Power BI:-**

* Install power BI Desktop
* From Welcome screen, select Get Data or Home tab, Select Get Data
* Select your data Source
* Design your Report
* Save the report

**4.Data connection in Power BI:-** With Power BI Desktop, We can connect to many different types of data. These sources include basic data sources, such as a Microsoft Excel. We can connect to online services that contain all sorts of data, Such as salesforce, Microsoft Dynamic, Azure Blob storage and many more.

The Get Windows appears. You can choose from the many different data-sources to which power BI desktop can connect.

The Power BI Supports different methods for connecting data. They are the import method, direct query method and Live connections.

The most used connecting methods are Import and Direct Query mode.

**Two reports Navigations:**

**Page Navigation:** Page navigation is the process of moving between pages in a Power BI report. There are a variety of ways to accomplish this, with some being more useful than others depending on the situation. All of them generally involve an Action on either a Button, Shapes, or Image. You can also use drill throughs!

**Bookmark:** Bookmarks can be used in a variety of ways, we will be using them to navigate between pages. To use the **Bookmark**feature, first go to the **View** ribbon in your toolbar and select Bookmarks right next to the Filters selection. This will bring up another pane next to your Filters, Visualizations, and Fields panes.

Go to your primary (landing) page and select the Add new bookmark button in the Bookmarks pane. Right-click on your newly added bookmark and you will see some options in the pop-up. These selections give you the option on what you want to “bookmark,” so if you want your data selections to carry over or if you want your display to carry over (such as a sort by selection) to be captured, you will need to select those options.

When you’re done choosing your options, select **Update.** This will update your bookmark to capture the[report page](https://www.tessellationtech.io/report-page-tooltips-in-power-bi/)’s current status.

5. **Importing data from Local Files:**

**W**e can import the data from local files like Excel, text and CSV

In Power BI, Click Get Data in the Lower left Screen.

Select Excel workbook, text or csv.

Click browse to select the local file.

Select the data you want to import and click the load button.

6**.** We have 2 modes for interacting with reports in the Power Service:

Editing view and Reading View

Reading View is used to consume the reports created by others, this is your way to explore and interact with reports created by colleagues were as editing View is used by the report designers.