**ASSIGNMENT 5**

**1.Explain DAX.**

Data Analysis Expressions (DAX) is a programming language that is used throughout Microsoft Power BI for creating calculated columns, measures, and custom tables. It 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.

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

A**dataset**is a collection of data that *you*importorconnectto. 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 dataflows. Datasets are associated with workspaces and a single dataset can be part of many workspaces.

A Power BI **report** is one or more pages of visualizations such as line charts, maps, and treemaps. Visualizations are also called visuals. All of the visualizations in a report come from a single dataset.

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. Each tile pinned from a report or from [Q&A](https://learn.microsoft.com/en-us/power-bi/consumer/end-user-q-and-a) displays a single [visualization](https://learn.microsoft.com/en-us/power-bi/visuals/power-bi-report-visualizations) that was created from a dataset and pinned to the dashboard. Entire report pages can also be pinned to a dashboard as a single tile.

**ONE** dashboard-

* is associated with a single workspace
* can display visualizations from many different datasets
* can display visualizations from many different reports
* can display visualizations pinned from other tools (for example, Excel)

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

**PAGE NAVIGATOR-**

1. On the **Insert** tab, select **Buttons > Navigator > Page navigator**.
2. When you select the Page navigator option, Power BI automatically creates a page navigator for you.
3. The page navigator is automatically in sync with your report pages, meaning –

* Titles of the buttons match the page display names.
* Ordering of the buttons matches the order of your report pages.
* The selected button is the current page.
* As you add or remove pages in your report, the navigator updates automatically.
* As you rename pages, the titles of the buttons update automatically.

If you want to further customize the pages that show or hide in the page navigator, go to the **Format navigator** pane > **Pages** tab. There, you have the option to **Show/hide hidden pages** or **Show/hide tooltip pages.**

**BOOKMARK NAVIGATOR-**

1. Before you can create the bookmark navigator, you need to [create the bookmarks](https://learn.microsoft.com/en-us/power-bi/create-reports/desktop-bookmarks) first. Additionally, create separate bookmark groups if you plan on creating different bookmark navigators within the same report.
2. Once you’ve created your bookmarks, select the **Bookmark navigator** option.
3. On the **Insert** tab, select **Buttons > Navigator > Bookmark navigator.**
4. Power BI automatically creates a bookmark navigator for you.
5. The bookmark navigator is automatically in sync with your report bookmarks, meaning-

* Titles of the buttons match the bookmark display names.
* Ordering of the buttons matches the order of your report bookmarks
* The selected button is the last selected bookmark.
* As you add or remove bookmarks in your report, the navigator updates automatically.
* As you rename bookmarks, the titles of the buttons update automatically.

If you want to further customize the bookmarks that show or hide in the bookmark navigator, go to the **Format navigator** pane > **Bookmarks** tab.

By default, **All** bookmarks are shown in the bookmark navigator; however, you can create and select a specific bookmark group to show only the bookmarks within that group.

You also have the option to **Allow deselection**, meaning users can deselect all the buttons in the bookmark navigator. This option is great for building a toggle-like experience or allowing for a deselected default state.

**4.How to connect to data in Power BI? How to use the content pack to connect to google analytics? Mention the steps.**

Steps to connect to the Google Analytics content pack -

1. In the left navigation pane, click Get Data.
2. In the Services box, click Get.
3. From the menu of online services, select Google Analytics, and then click Connect.
4. Enter the Google Analytics account, property, and view that you want to connect to. Then sign in with your Google Analytics credentials.
5. To permit Power BI to connect to Google Analytics, click Accept.
6. 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.

You can also import Google Analytics data directly into Power BI Desktop. Steps –

1. Launch Power BI Desktop. On the ribbon, in the External Data group, click Get Data.
2. From the drop-down menu, click More…
3. In the Get Data window, click Other. From the list of other data sources, click Google Analytics, and then click Connect.
4. Read the information about connecting to a third-party service, and then click Continue.
5. Google Analytics asks Power BI Desktop for permission to connect to your data. Click Accept.
6. Power BI Desktop shows that you’re signed in to Google Analytics. To load your Google Analytics data, click Connect.
7. 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.**

Steps-

1. To import data, go to the ‘Home’ tab click on ‘Get data’ select the ‘Folder’ source then click ‘OK’.
2. Here you can see the metadata information of the files also you can see the three options ‘Load’, ‘transform Data’ and ‘Cancel’.
3. Once you click on ‘Load’ you get the option sample file; choose the file you want to load here.
4. Your file has loaded now you can see the file on the left side of the tool.
5. Create a report.

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

There are two modes to view and interact with reports: Reading viewandEditing view. When you open a report, it opens in Reading view. If you have edit permissions, then you see **Edit report** in the upper-left corner, and you can view the report in Editing view. If a report is in a workspace, everyone with an admin*,*member*,* or contributor role can edit it. They have access to all the exploring, designing, building, and sharing capabilities of Editing view for that report. The people they share the report with can explore and interact with the report in Reading view.