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# Power BI 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. DAX programming formula contains two data types: Numeric and Other. Numeric includes - integers, currency and decimals, while Other includes: string and binary object.

There are different DAX functions such as Aggregate, text, date, logical, counting and information.

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

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 dataflows.

A Report is a multi-perspective view of a dataset, with visuals representing different findings and insights. A report can have one visual or pages full of visuals.

Depending on the role of your job, you may be someone who designs reports.

A PowerBI dashboard is a single page, often called a canvas, telling a story through visualizations. Because it is limited to only one page, a well-designed dashboard contains only the highlights of that story.

**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.

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

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.

#### **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 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.
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- 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.

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

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. The message "Your file has been uploaded" should appear.
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## 6. In Power BI visualization, what are Reading View and Editing view?

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. 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.

