**Power BI Assignment 5**

1. Explain DAX.

**Solution:** 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.

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

**Solution:** Power BI datasets represent a source of data ready for reporting and visualization. There are five different dataset types, created in the following ways:

* Connecting to an existing data model that isn't hosted in a Power BI capacity
* Uploading a Power BI Desktop file that contains a model
* Uploading an Excel workbook (containing one or more Excel tables and/or a workbook data model), or uploading a CSV (comma-separated values) file
* Using the Power BI service to create a push dataset
* Using the Power BI service to create a streaming or hybrid streaming dataset

A Power BI report is a multi-perspective view into a dataset, with visuals that represent different findings and insights from that dataset. A report can have a single visual or pages full of visuals.

A Power BI dashboard is a single page, often called a canvas, that tells a story through visualizations. Because it's limited to one page, a well-designed dashboard contains only the highlights of that story. Readers can view related reports for the details.

In the Power BI service, reports are built on datasets, report visuals are pinned to dashboards, and dashboard visuals link back to reports.

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

**Solution:** <https://www.youtube.com/watch?v=Z2t7l8b1uWU&t=158s>

* You can store and manage PowerBi reports on premises in the PowerBi report server web portal
* You can even store PowerBi reports in cloud in the PowerBi Service
* You create and edit reports in Power BI Desktop, and publish them to the web portal. Then report readers in your organization can view them in a browser or in a Power BI mobile app on a mobile device.

**Reference:** <https://bit.ly/3AWbImy>

Click on the button on your first (landing) page and go down the Action selection. Make sure to turn it on then select Page Navigation from the drop-down. Add a button, image, or shape to the page that you want to start on. Then place one on the page that you want to be directed to.

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

Solution: You can connect to data in PowerBi using tools such as Gateways, Template Apps, and data refresh. With Power BI Desktop, you can connect to many different types of data. These sources include basic data sources, such as a Microsoft Excel file. You can connect to online services that contain all sorts of data, such as Salesforce, Microsoft Dynamics, Azure Blob Storage, and many more. To connect to data, from the Home ribbon select Get data. The Get Data window appears. You can choose from the many different data sources to which Power BI Desktop can connect. In this QuickStart, use the Excel workbook that you downloaded in Prerequisites. Since this data source is an Excel file, select Excel 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. Select that file, and then select Open.

**Reference:** <https://powerbi.microsoft.com/sv-se/blog/power-bi-google-analytics-power-analytics/>

In Power BI, it's straightforward to connect to the Google Analytics content pack.

* In the left navigation pane, click Get Data
* In the Services box, click Get
* 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.

**Solution:** <https://adobe.ly/3geWkIm>

* In Power BI, click Get Data in the lower left screen.
* In Power BI, click Get Data in the lower left screen.
* Click Local File.
* Choose which file to upload and click Open.

- Click Upload under Upload your Excel file to Power BI.

- The message “Your file has been uploaded” should appear.

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

**Solution:** 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. Slice and dice the content, and even ask it questions using your own words. Or, sit back and let your data discover interesting insights for you; send you alerts when data changes, and email reports to you on a schedule you set. All your data, any time, in the cloud or on-premises, from any device.