**Power BI Assignment 3**

1. List and explain different PowerBi products?

Answer:

1. Power BI Desktop:

Creating and editing customized reports for every level of expertise. Data ingestion from hundreds of supported data sources. Data transformation, cleaning, data model creation with built-in Power Query Editor. AI-driven analytics. Interactive reporting with pre-built or custom visuals

1. Power BI Pro:

Self-service BI in the cloud. Creating, editing and sharing reports and dashboards among users. Collaboration in personal and team workspaces. 10 GB of storage per user.

1. Power BI Premium:

Enterprise BI both on-premises and in the cloud. Dedicated storage (100 TB) and compute resources. Consumption of Power BI content without individual licensing. Maintaining BI assets on-premises with the Power BI Report server. Paginated reporting. Multi-geo capability.

1. Power BI Embedded:

Reports, dashboards and visual analytics embedded into applications. An extensive library of data connectors, APIs, and fully documented SDKs.

1. What limitations of Excel, Microsoft solved by PowerBi?

Answer:

* Power BI can connect hundreds of data sources to get data using native connectors or partner connectors compare to Excel can connect less than hundred data sources to get data.
* Power BI is very efficient at processing and analysing very large datasets (millions of rows) whereas Excel can be slower and less performant compared to Power BI for same large dataset.
* Power BI UI is great self-service UI compared to Excel whereas Excel offers familiar UI consistent with other Office products.
* Power BI has Q & A and Functions to consume Azure Text Analysis which can be deal breaker not only when Power BI compared to Excel but also other BI players like Tableau, Looker etc.
* Power BI has plethora of visuals both native and third party which just make Business Intelligence a lot easier compared to Excel. I have seen some partners have done amazing job to offer extend visualizations in Excel, but Power BI would stand out for design elements and modern look and feel.
* It assures higher data security than Excel

1. Explain PowerQuery?

Answer:

Power Query is a data transformation and data preparation engine. Power Query comes with a graphical interface for getting data from sources and a Power Query Editor for applying transformations. Because the engine is available in many products and services, the destination where the data will be stored depends on where Power Query was used. Using Power Query, you can perform the extract, transform, and load (ETL) processing of data.

Currently, two Power Query experiences are available:

* Power Query Online: Found in integrations such as Power BI dataflows, Microsoft Power Platform dataflows, Azure Data Factory wrangling dataflows, and many more that provide the experience through an online webpage.
* Power Query for Desktop: Found in integrations such as Power Query for Excel and Power BI Desktop.

1. Explain PowerMap?

Answer:

Microsoft Power Map for Excel is a three-dimensional (3-D) data visualization tool that lets you look at information in new ways. A power map lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts.

With Power Map, you can plot geographic and temporal data on a 3-D globe or custom map, show it over time, and create visual tours you can share with other people. You’ll want to use Power Map to:

* Map data - Plot more than a million rows of data visually on Bing maps in 3-D format from an Excel table or Data Model in Excel.
* Discover insights - Gain new understandings by viewing your data in geographic space and seeing time-stamped data change over time.
* Share stories - Capture screenshots and build cinematic, guided video tours you can share broadly, engaging audiences like never before. Or export tours to video and share them that way as well.

1. How powerBi eliminated the need to host SharePoint Server on premises?

Answer:

Not Sure of the Answer but I think the introduction of Power BI Webpart for Sharepoint online eliminated the need to host sharepoint on premise

1. Explain the updates done in Power Bi Service (power BI 2.0) as compared to older version?

Answer:

* Browse changes The left navigation links for Recent, Favorites, and Shared with me full page lists are being combined in a new Browse tab. You can still search and filter these lists, and now you can even filter by keyword.
* Left navigation changes A major change coming to the left navigation pane is tooltips. Before, to see what an icon represented in the left navigation pane, you had to expand the entire menu.
* Workspace flyout menu changes The My Workspace link moves below the Search box in the workspace flyout menu.
* Get Data changes The Get Data experience moves from the bottom of the left navigation pane to the Create tab.
* Reference: <https://learn.microsoft.com/en-us/power-bi/fundamentals/service-experience-changes>