

POWER BI ASSIGNMENT 3

Q1 List & explain different PowerBI products?

- 1.) Power BI desktop: This is a windows desktop application used for creating & publishing reports & dashboards.
- 2.) Power BI Service: This is a cloud-based service for sharing, collaborating & publishing reports & dashboards.
- 3.) Power BI Mobile App: This is a mobile app available for iOS, Android & windows devices.
It allows users to access their reports & dashboards from their mobile devices.
- 4.) Power BI Report Server: This is an on-premises solution for deploying & managing power BI reports & dashboards within a company's own infrastructure.
It provides org. with the ability to control access & maintain data security on their own servers.
- 5.) Power BI Embedded: This is a platform for developers to integrate power BI dashboards & reports into their own applications.
- 6.) Power BI Premium: This is a premium version of the power BI service that includes additional capacity & performance features for enterprise-level deployments.
- 7.) Power BI Report builder: This is a standalone windows desktop application used for authoring paginated reports. It includes a drag-&-drop report designer, support for multiple

data sources, & advanced formatting & visualization options.

Q2 What limitations of Excel Microsoft & solved by PowerBI?

- 1) Scalability: Excel has limitations on the amount of data that can be handled in a single worksheet. PowerBI can handle much larger volumes of data & provides a more scalable solution for analyzing & visualizing data.
- 2) Data Modelling: Excel's data modelling capabilities are limited, making it difficult to analyze data from multiple sources.
- 3) Data Refresh: In Excel, refreshing data can be time-consuming & manual. PowerBI can automatically refresh data from multiple sources on a regular basis, ensuring that reports & dashboards are always up-to-date.
- 4) Collaboration: Sharing Excel Spreadsheets can be difficult & time-consuming especially when dealing with large or complex data sets.
- 5) Interactive Visualizations: Excel's visualization capabilities are limited, making it difficult to create interactive & engaging reports & dashboards.

Q3 Explain Power Query?

Power Query is a data connection & transformation tool in Power BI that allows users to extract, clean & transform data from a wide range of sources.

With Power Query, users can connect to various data sources, such as databases, web services & text files & transform the data using a user-friendly interface.

Data Transformation includes: Filtering & Sorting data,

Removing duplicates, Splitting columns, Merging data, Adding custom column, Grouping data, etc.

Once the data transformations are applied, users can load the transformed data into Power BI or Excel for further analysis.

Q4 Explain Power Map?

Power Map is a data visualization tool in Power BI that allows users to create 2D maps & interactive ~~dashboards~~ visualizations based on geographic & temporal data.

Q5 How PowerBI eliminated the need to host SharePoint server on premises?

Before the introduction of PowerBI, hosting a SharePoint server required significant infrastructure & maintenance costs, & could be a challenge for smaller Orgs.

By offering cloud-based solution for data sharing & collaboration, PowerBI has eliminated the need for Org. to host SharePoint servers on premises, providing a more cost-effective & scalable solution for data sharing & collaboration.

Q6 Explain the updates done in PowerBI Service (PBI 2.0) as compared to older version?

1.) Modern UI: The UI has been updated to provide a modern, intuitive user experience. The navigation has been streamlined & the interface is more consistent across different devices.

2.) New Visualization Types: It includes new visualization types such as Treemaps, funnel charts, & gauges.

3.) Improved data modelling: Addition of features such as bi-directional relationships, calculated tables & composite models.

- 4.) Improved Sharing & Collaboration: Such as the ability to share dashboards & reports with external users.
- 5.) Power BI Premium: It provides dedicated capacity & higher performance for larger org. that require more resources & scalability.