

1. The other Power BI products are as follows:-

Power BI Desktop:

Power BI Desktop is a free Windows application for creating interactive reports and dashboards. It is used for data modeling, data transformation, and designing visualizations. Reports and dashboards created in Power BI Desktop can be published to the Power BI Service for sharing and collaboration.

Power BI Service (PowerBI.com):

Power BI Service is the cloud-based platform where reports and dashboards are shared and accessed by users. It allows users to collaborate, explore, and interact with reports online. Users can access the Power BI Service from web browsers or through mobile apps.

Power BI Pro:

Power BI Pro is a paid user subscription that provides additional features and capabilities in the Power BI Service. With Power BI Pro, users can create and share reports and dashboards with colleagues and stakeholders, collaborate with others, and access shared content.

Power BI Premium:

Power BI Premium is an enterprise-level offering that provides dedicated capacity for better performance and larger datasets. It includes all the features of Power BI Pro but offers additional capabilities like increased data refresh rates and the ability to share reports with non-Pro users.

Power BI Report Server:

Power BI Report Server is an on-premises solution that allows organizations to host and manage Power BI reports within their own infrastructure. It is available as part of the Power BI Premium per user (PPU) or Power BI Premium per capacity (PPC) licensing.

Power BI Mobile Apps:

Power BI offers mobile applications for iOS and Android devices, allowing users to access and interact with reports and dashboards on the go. Mobile apps provide a responsive and optimized experience for viewing and analyzing data on smaller screens.

Power BI Embedded:

Power BI Embedded is designed for developers who want to embed Power BI reports and dashboards directly into their applications. It allows seamless integration of Power BI content within custom applications without requiring users to have individual Power BI licenses.

Power BI Dataflows:

Power BI Dataflows allow users to build data transformation processes in the cloud that can be reused across multiple reports and dashboards. It helps create a centralized and standardized data preparation process for better data governance.

Power BI AI Capabilities:

Power BI offers AI capabilities like natural language querying (Q&A), key influencers, and automated insights to enhance data exploration and analysis.

2. Some of the issues which are solved by Power BI which are not present in Excel are :-
 - a. **Scalability:** Excel can become slow and unresponsive when handling large datasets, especially when performing complex calculations and data analysis. Power BI, being a dedicated business intelligence tool, is designed to handle big data and perform efficient data processing, making it more suitable for large-scale data analysis.
 - b. **Data Modeling:** Excel lacks robust data modeling capabilities, and creating relationships between data tables can be cumbersome. Power BI provides a more advanced data modeling engine, allowing users to define relationships and hierarchies between tables to build a strong foundation for analysis.
 - c. **Data Transformation:** Excel has limited data transformation capabilities, and users often resort to manual and repetitive data cleansing tasks. Power BI's Power Query Editor offers more advanced ETL (Extract, Transform, Load) functionalities, enabling users to clean, shape, and combine data from multiple sources more efficiently.
 - d. **Interactive Visualizations:** Excel's charting and visualization options are sufficient for basic needs but lack the interactivity and versatility required for sophisticated business intelligence reporting. Power BI excels in creating interactive and dynamic visualizations, allowing users to drill down into data, apply filters, and explore insights.
 - e. **Collaboration and Sharing:** Excel reports are typically shared via email or file-sharing platforms, leading to version control issues and limited collaboration. Power BI offers a cloud-based platform where users can publish and share reports and dashboards, allowing real-time collaboration and access from anywhere.
 - f. **Centralized Data Governance:** Excel lacks centralized data governance features, making it difficult to manage data sources and access permissions consistently. Power BI offers robust data governance capabilities, enabling organizations to control data access and manage data sources centrally.

3. Power Query offers a powerful and user-friendly data preparation solution for users, reducing the need for manual data cleansing and transformation tasks in Excel and other Microsoft products. Its integration with Power BI and Excel empowers users to create clean, structured, and ready-to-analyze datasets, making it an essential tool for modern data analysis and reporting workflows.

4. Power Map is basically 3 D visualization of maps. Power Map was primarily designed to work with geographical and spatial data, enabling users to explore data patterns across different geographic regions and visualize them on a 3D map. It offered a unique way to tell compelling data stories by animating data over time and presenting insights in a visually appealing and engaging manner.

5. Power BI eliminates the need to host SharePoint Server on premises by providing a cloud-based platform for data visualization, reporting, and collaboration. With Power BI, organizations can leverage the cloud infrastructure and services provided by Microsoft, reducing the complexity and cost associated with managing on-premises servers like SharePoint.

6. There is a revamp in the dataset page which not only enhances the look and feel but also introduces new features to enhance the users experience.