**Power BI Assignment 2**

1. **List and explain different PowerBi products?**

Some of the major power Bi products are:

**Power BI Desktop**: A Windows application for creating data models, transforming data, and designing interactive reports and dashboards.

**Power BI Service**: A cloud-based platform for publishing, sharing, and collaborating on Power BI reports and dashboards, accessible from anywhere.

**Power BI Mobile**: Mobile apps for iOS and Android, allowing users to access and interact with Power BI content on their smartphones and tablets.

**Power BI Report Server**: An on-premises solution for hosting and sharing Power BI reports within an organization's network.

**Power BI Embedded**: APIs and tools for developers to embed Power BI reports into custom applications for end-users.

**Power BI Premium**: A capacity-based licensing model that provides dedicated resources for organizations with high data usage and larger datasets, ensuring optimal performance and scalability.

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

Microsoft addressed several limitations of Excel with Power BI:

**Scalability:** Excel struggles with large datasets, while Power BI efficiently handles vast volumes of data.

**Real-time Collaboration**: Excel lacks real-time collaboration features, making it challenging for teams. Power BI Service enables real-time collaboration on reports and dashboards.

**Data Integration**: Power Query in Power BI simplifies data integration, offering a graphical interface for data transformation from various sources.

**Interactive Dashboards:** Power BI provides interactive and dynamic dashboards, enhancing Excel's static charts and tables.

**Mobile Accessibility**: Power BI Mobile apps offer a superior mobile experience for accessing reports on smartphones and tablets compared to Excel.

1. **Explain PowerQuery?**

Power Query is a data transformation and connection tool in Power BI. It simplifies data preparation by allowing users to connect to various data sources, clean, transform, and shape data using a user-friendly interface. It streamlines the process of data extraction, transformation, and loading (ETL), making it easier to prepare data for analysis in Power BI.

1. **Explain PowerMap?**

Power Map, now known as 3D Maps in Excel, is a data visualization tool that enables users to create interactive 3D geographical maps. It allows the visualization of spatial data on a 3D globe or custom maps, making it easier to analyze and present data in the context of geographic locations. Users can explore data in a dynamic and visually engaging manner.

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

Power BI's cloud-based service, Power BI Service, eliminates the need for hosting SharePoint Server on-premises by providing a secure and scalable platform for hosting and sharing Power BI content. Users can publish reports and dashboards to Power BI Service, making them accessible from anywhere without the need for on-premises infrastructure. It simplifies collaboration and ensures data security, reducing the reliance on hosting SharePoint Server locally for sharing and accessing reports and dashboards.

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

Power BI Service, often referred to as Power BI 2.0, has seen significant updates compared to older versions. These updates include enhanced data visualization options, the introduction of dataflows for data preparation and reuse, improved natural language querying, automatic data insights generation, advanced collaboration features, faster data refresh, and seamless integration with AI and machine learning capabilities from Azure. These improvements enhance user experience, data analysis, and reporting capabilities in Power BI Service.