Power BI Assignment 3

1. List and explain different PowerBi products?

Different Power BI Products:

1. **Power BI Desktop:**
   - A free application for creating reports and visualizations on a local machine. It allows users to connect to various data sources, transform data, and build interactive reports.
2. **Power BI Service:**
   - The cloud-based service where users can publish, share, and collaborate on Power BI reports and dashboards. It facilitates collaboration and centralizes data sharing.
3. **Power BI Mobile Apps:**
   - Mobile applications for iOS and Android devices that allow users to access and interact with Power BI reports and dashboards on the go.
4. **Power BI Gateway:**
   - A bridge between on-premises data sources and the Power BI Service. It enables scheduled data refresh and direct connectivity to on-premises databases.

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

Limitations of Excel Solved by Power BI:

- **Scalability:**
  - Excel has limitations when dealing with large datasets. Power BI's cloud-based service handles larger datasets more efficiently.
- **Data Modeling:**
  - Power BI provides advanced data modeling features with relationships and measures, offering more flexibility than Excel.
- **Collaboration:**
  - Excel lacks seamless collaboration features. Power BI Service enables real-time collaboration and sharing of reports and dashboards.
- **Real-time Analytics:**
  - Power BI supports real-time data streaming and analytics, a feature not as seamlessly integrated into Excel.

3. Explain PowerQuery?

PowerQuery:

Definition: Power Query is a data connection technology that enables users to discover, connect, combine, and refine data across a wide variety of sources. It is used for data transformation and shaping.

Functions:

- Import data from diverse sources.
- Clean and transform data using a user-friendly interface.
- Combine and merge data from multiple sources.
- Create reusable query scripts for automation.

4. Explain PowerMap?

PowerMap:

Definition: Power Map is a 3D data visualization tool that allows users to plot geographic and temporal data on a 3D globe or custom map.

Functions:

- Create visualizations based on geographic and time-related data.
- Display data points on a globe or custom map.
- Animate data changes over time.
- Enhance storytelling with interactive 3D maps.

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

Updates in Power BI Service (Power BI 2.0):

- **Enhanced Collaboration:**
  - Improved sharing and collaboration features for seamless teamwork.
- **Advanced Data Insights:**
  - More advanced analytics capabilities for in-depth data insights.
- **Power BI Apps:**

- Introduction of Power BI Apps for better organization and distribution of content.
- **Performance Improvements:**
  - Enhancements in data refresh and report loading times.
- **Expanded Data Connectivity:**
  - Increased support for a wide range of data sources.