Power BI Assignment 3

1. List and explain different PowerBi products?
    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.

    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.

    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.

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

2. What limitations of Excel, Microsoft solved by PowerBi?
    - Excel is used to organize data, transform it and perform mathematical operations and calculations. On the other hand, Power BI was conceived as a business intelligence and data visualization tool for businesses.
    - Excel has limitations in the amount of data it can work with. In contrast, Power BI can handle much larger amounts of data.

- Power BI can connect to a large number of data sources, while Excel's connectivity capacity is limited. Also, unlike Excel, Power BI can be easily used from mobile devices.
- Power BI has faster processing than Excel.
- Power BI dashboards are more visually appealing, interactive and customizable than those in Excel.
- Power BI is a more powerful tool than Excel in terms of comparison between tables, reports or data files.
- Power BI is more user friendly and easy to use than Excel.

3. Explain PowerQuery?
Power Query is Microsoft's Data Connectivity and Data Preparation technology. It basically, enables business users to access data stored in data sources seamlessly whilst, reshaping it to fit their needs. It's easy to use, engaging, even convenient to use for the no-code users.

4. Explain Power Map?
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.

5. How powerBi eliminated the need to host SharePoint Server on premises?
SharePoint On-Premise is commonly maintained by a company's IT team at its data center. The team must keep it up to date via patches and other relevant updates. The on-premise SharePoint runs on a Client Access License model (Server/CAL), which gives users the legal right to access services within a server.

When it comes to SharePoint On-Premise, there are two time-sensitive considerations to make:

1. Support for some SharePoint On-Premise verse is coming to an end.
2. On-premise software is becoming out-dated

SharePoint Online is a cloud-based service offered by Microsoft as part of a Microsoft 365 or SharePoint subscription.

The cloud version of SharePoint offers a myriad of benefits to users, including straightforward ways to store, share, and keep track of information. External collaboration and communication efforts can be made easily as SharePoint Online connects with many outside customers and vendors. SharePoint Online comprises both web and cloud-based technologies. It eliminates high data storage costs, subscription charges, and other SharePoint on-premises deployments.

The primary benefits of migrating to the SharePoint Online platform are:

- The ability to integrate with Microsoft 365 applications
- High-level security features
- Compatibility with mobile devices, so information is accessible on the go
- Easy external collaboration efforts with users
- HIPPA, FIMSA, and ISO27001 compliance, among others
- Ability to create document libraries for enhanced collaboration efforts

Now, customers can use Power BI and optionally integrate their Power BI content into SharePoint 2019 and SharePoint Online, using either Power BI or Power BI Report Server.

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

The following updates are new to the Power BI service this month (December 2022 Update (2.112.283.0):

- Power BI org app Multiple Audiences now author can create multiple audience groups within the same App and assign different permissions to each group. Learn more Publishing an org app in Power BI.

- Deprecation of Getting Started in expanded view
  The ability to view 'Getting Started' content through the expanded view from the Power BI service will be retired starting mid-December. The Power BI

Service's expanded view currently gives you the option to view "Getting Started" content at the end of your Home Page. From the "Getting Started" section, you can utilize information on how to get started using Power BI, tips and tricks on how to create/utilize reports and dashboards, etc. Due to low usage from Power BI users, support for the "Getting Started" section will be removed and you will no longer be able to access the content above through this area. Retirement of the "Getting Started" section will open the Power BI service's expanded view Homepage for new additions in the future.

- Changes to the Get Data experience
Removing the older 'Get Data' page in the Power BI service in favour of new, comparable features available within workspaces. The change that will remove the entry points to the old 'Get Data' page, which is shown before reference, will be slowly rolling out during the month of January.