**Power BI Assignment 3**

**List and explain different Power BI 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.

**What limitations of Excel, Microsoft solved by Power BI?**

* Power BI is a Business Intelligence (BI) and Data Visualisation tool for developing customized and interactive dashboards from various data resources while Microsoft Excel is a software application from Microsoft that is used for data analytics, mathematical operations, data organization, and various other functions using a spreadsheet.
* Power BI is quite fast in processing when compared to Microsoft Excel.
* Power BI can efficiently handle a large quantity of information while Microsoft Excel is limited to some extent of information.
* Power BI can manage Big Data while Microsoft Excel is not efficient in handling Big Data.
* Power BI can connect with different varieties of resources while Microsoft Excel can connect to limited sources.
* Power BI dashboards are more interactive and customizable while Microsoft Excel dashboards are not much interactive.
* Power BI is easy to use and flexible while Microsoft Excel is not so convenient to utilize.
* Power BI is mainly utilized for data visualizations and dashboard sharing to a multitude of users while Microsoft Excel is mainly used for comprehensive driver analysis.
* Power BI is a much more powerful tool contrasting Microsoft Excel.
* Power BI is friendly with mobile phones because of iPhone, Android, and Windows applications while Microsoft excel is not mobile-friendly.

**Explain PowerQuery?**

Power Query is a tool in Microsoft Excel that simplifies the process of importing data from different source files and sorting them into an Excel sheet in the most convenient and usable format. Power Query is a user-friendly business intelligence tool that does not require the user to learn any specific code.

**Explain PowerMap?**

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.

**How Power BI eliminated the need to host SharePoint Server on premises?**

SharePoint Server 2019 brings cloud closer to the Customers and Customers closer to the cloud. The cloud features Power Apps, Power BI, and Power Automate are now available. SharePoint Server 2019 includes process automation and forms technologies like Power Apps and Power Automate to connect with your on-premises data. These features needs to be configured via gateway.

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

Power BI Desktop for Power BI Report Server:

**Reporting**

* Page and bookmark Navigators
* Sort legend
* New formatting options for text
* Pie and donut chart rotation

**Modeling**

* SWITCH performance optimization
* Bitwise functions in DAX

**Other**

* WebView2