**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. 10GB 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.

1. 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.

1. Explain PowerQuery?

Power Query is a data transformation and data preparation engine. Power Query comes with a graphical interface for getting data from sources and a Power Query Editor for applying transformations. Because the engine is available in many products and services, the destination where the data will be stored depends on where Power Query was used. Using Power Query, you can perform the extract, transform, and load (ETL) processing of data.

1. Explain PowerMap?

Power Map 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.

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

SharePoint is an important part of how many organizations organize and distribute BI content to users. In recognition of how important this approach is, we’ve invested in modernizing and creating deeper integrations with SharePoint. Over the last year, we have introduced the Power BI webpart for SharePoint Online and an updated Reporting Services Report Viewer webpart for SharePoint on-premises. Customers like the flexibility this gives them to build highly-customized SharePoint experiences using their BI content.

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

* The format pane gets a makeover
* Two new navigators: Page and bookmark navigators
* New dashboard visual and new visuals available in the AppSource
* New data connectors
* Choose your workspace