**Power BI Assignment 3**

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

**Ans. 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 Service** - Power BI service is a cloud-based business analytics and data visualization service that enables anyone to visualize and analyze data with greater speed, efficiency, and understanding. It connects users to a broad range of data through easy-to-use dashboards, interactive reports, and compelling visualizations that bring data to life.

**Power BI Embedded** -Power BI embedded analytics allows you to embed your Power BI items such as reports, dashboards and tiles, in a web application or in a website. You can: Deliver compelling data experiences for your end users, enabling them to take action based on insights from your solutions data.

**Power BI Report Builder** - Power BI Report Builder is a tool for authoring paginated reports that you can publish to the Power BI service. Paginated reports are designed to be printed or shared. They're formatted to fit well on a page, and they display all the data in a table, even if the table spans multiple pages

**Power BI Report Server** - Power BI Report Server is an on-premises report server with a web portal in which you display and manage reports and KPIs. Along with it come the tools to create Power BI reports, paginated reports, mobile reports, and KPIs. Your users can access those reports in different ways: viewing them in a web browser or mobile device, or as an email in their in-box.

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

**Ans.** 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 enables you to more easily query and transform data held within large scale or remote databases by providing the following querying/transforming languages: M, DAX, MDX.

The online Power BI Service enables report and dashboard sharing across organisations and individuals who don’t even have Power BI desktop.

1. **Explain PowerQuery?**

**Ans.** 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?**

**Ans**. 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.

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

**Ans.**

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

**version ?**

**Ans.** Power BI has changed the design of its format pane.

Power BI solves this problem with two new navigators: the page navigator and the bookmark navigator which make it easier to create personalised navigation experiences.

New visual allows users to easily integrate a dashboard into a report as well as update their business goals.

Power BI extends its connectivity with new data connectors and by updating some of the existing connectors.

The **new Power BI data connectors** are:

* Azure Synapse Analytics
* Google Sheets
* Delta Sharing

**Updated connectors**:

* Google BigQuery
* Cognite Data Fusion
* Dremio Cloud