**Power BI Assignment 2**

1. List and explain different PowerBi products?

* Power BI Desktop – A window desktop application for data analysis and report creation.
* Power BI service – Online software as a service, used to collaborate and distribute Power BI reports.
* Power BI mobile – A native mobile app.
* Power BI report builder – A tool for creating paginated reports.
* Power BI report server – An on-premises report server (available through PowerBI premium licensing).
* Power BI embedded – A service to embed visuals, reports, and dashboards into an application.

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

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.

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.

1. 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.

1. How powerbi eliminated the need to host sharepoint server on premises?

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. We’re making this experience in Power BI better than ever by:

· Adding support for all major report types across both platforms. In the coming weeks, we’ll have the first public preview of Paginated (RDL) reports in Power BI Premium, giving customers full support for Paginated Reports, Power BI Reports and Excel Workbooks in Power BI.

· Providing easier ways to report on your data in SharePoint. We’ve recently announced new functionality to make easier than ever to start visualizing your Excel tables and CSV files stored in SharePoint Online in Power BI.

Additionally, for Power BI Report Server, we’re adding some new features that already exist in Power BI, but were previously available only through SharePoint integration for on-premises deployments. These include –

· Power Pivot Scheduled Data Refresh. We first added support for Excel Workbooks in Power BI Report Server in October 2017, including the hosting and viewing of Excel Workbooks containing data models. We’ll be expanding this support to include scheduled data refresh of these workbooks.

· Modern Authentication support. Security considerations are a key part of any BI deployment strategy, and many customers used SharePoint to handle claims-based authentication scenarios for their users. We’re adding native support for ADFS/AAD authentication to Power BI Report Server in an upcoming release.

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

July 2022 update - Data hub improvements - data preview and export (Power BI 2.107.683.0)

June 2022 update - Power BI data storytelling, Announcing the Data hub, Power BI metrics updates