**Power BI Assignment 3**

1. List and explain different PowerBi products?

The different products offered by Microsoft are: [Power BI Desktop](https://powerbi.microsoft.com/en-au/desktop/), [Power BI Pro](https://powerbi.microsoft.com/en-au/power-bi-pro/), [Power BI Premium](https://powerbi.microsoft.com/en-au/power-bi-premium/), [Power BI Mobile](https://powerbi.microsoft.com/en-au/mobile/), [Power BI Embedded](https://azure.microsoft.com/en-us/services/power-bi-embedded/) and [Power BI Report Server](https://powerbi.microsoft.com/en-au/report-server/). Power BI Desktop is the software’s free program, intended for businesses in need of a low-cost report building tool. Desktop is able to connect to a broad range of databases and various on-premise and cloud-based sources such as [Salesforce](https://www.selecthub.com/crm-software/salesforce/), [Dynamics 365](https://www.selecthub.com/crm-software/dynamics-365-crm/), Excel, Azure SQL DB. It also publishes visualizations on public online spaces, such as the Power BI service.Power BI Pro is the next step up. Pro gives users more control over report sharing, with features that enable role-specific data protection, project collaboration and simplified circulation. Power BI Premium is the suite’s top-tier solution. It is made for large-scale data analysis, increased distribution ability and more options for deployment. Power BI mobile lets you view live dashboards and reports on mobile devices and share them directly with team members from the app. Power BI Embedded allows you to deploy analytics and ensures data security in single and multi-tenant deployments. Power BI Report Server allows you to publish reports on the server and share them with other users. The central focus of the system is reporting, [data mining](https://www.ibm.com/cloud/learn/data-mining) and exploring. It is able to pinpoint valuable data from a variety of sources and build it up into a report or combine it with others. Power BI is especially useful for accomplishing reporting tasks through application programming interfaces (APIs). In many ways, Power BI is much like the existing SSRS framework of Microsoft Business Intelligence. It creates intricate layers of data which contribute to the final reporting aspect of business intelligence operations. The desktop app is great for drawing up and publishing reports. This part of the system is well suited to extracting initial insights. In other words, it can help you determine which questions you need to answer. To put it another way, your data holds the answers to every question about your business. However, this is far more of a frustration than an asset, unless you decide which questions and answers are valuable. Power BI can help you do this by connecting to live data and providing real-time analytics of trends and market indicators.The real beauty of Power BI is its near-limitless capacity to mine diverse sources. It can extract insights from much newer SaaS architectures (like Zendesk and Github) just as easily as it can from traditional databases. You can even link the software up to statistical language and have it display complex numerical reports.

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.Power BI has faster processing than Excel.

1. Explain PowerQuery?

With Power Query (known as Get & Transform in Excel), you can import or connect to external data, and then *shape* that data, for example remove a column, change a data type, or merge tables, in ways that meet your needs.

1. Explain PowerMap?

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.

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

A removed feature is no longer supported by Microsoft in SharePoint Server 2019. In many cases, the feature is actually removed from the product, but in some cases it may still be present. A feature labeled as "removed" is unsupported even if the feature is still present in the product.

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

What is the major difference between the old version and a new version of Power BI tool? The latest version has more robust features, and it is famous with the name Power BI Desktop. This is an all in one solution for Power View, Power Pivot, and Power Query in the backend