**ASSIGNMENT**

Question 1 List and explain different PowerBi products?

Answer: Power BI Desktop-Power BI Desktop includes a *Report view*, where you can create any number of report pages with visualizations. Report view in Power BI Desktop provides a similar design experience to the report's editing view in the *Power BI service*. You can move visualizations around, copy and paste, merge, and so on.

Power BI pro-Power BI Pro is the full version of Power BI, which means it comes complete with the ability to use Power BI for both building dashboards, reports and unlimited viewing, sharing and consumption of your created reports (and reports shared by others) which is not possible with Power BI Desktop.

Power BI Premium­-The Power BI Premium licence is not a per-user licence like a Free or Pro Licence. Instead, Power BI Premium licence provides a dedicated unit of capacity for all users in the organisation. This dedicated capacity (aka Premium Workspace) can be used to host large datasets up to 50GB while offering a total storage of 100TB in the cloud.

Power BI Mobile-In the power bi mobile app you connect to and interact with your cloud and on-premises data.

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.

Power BI Report Server-Power BI Report Server is an on-premises (at your own location) server that lets you and your business build your BI initiatives on local hardware, and publish and share both Power BI reports and traditional reports created with SQL Server Reporting Services from within your organisation’s firewall. In simpler terms, the server you use for managing your collaboration through Power BI will be at your location using infrastructure that is physically present.

Question 2 What limitations of Excel, Microsoft solved by PowerBi?

Answer-Excel is used to organize data, transform it and performmathematical operations and calculations. On the other hand, Power BI was conceived as a business intelligenceand data visulaization 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 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.

Question3 Explain PowerQuery?

Answer-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.

Question4-Explain PowerMap?

Answer: A power map lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts. A power map lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts.

##### Question6-Explain the updates done in Power Bi Service(power BI 2.0) as compared to older version ?

##### Answer-Power BI has changed the design of its format pane, Prior to the new update, users who wanted to set a customer page or bookmark navigation experience had to set up each individual button for every page or bookmark. 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.  Power BI has designed a new dashboard visual that can be added to [Power bi](https://blog.bismart.com/en/what-do-we-do-power-bi)reports to help companies integrate business goals, performance indicators, [KPI](https://blog.bismart.com/en/what-is-a-kpi-examples-types-of-kpis) visuals and dashboards into Power BI reports. Power BI extends its connectivity with new data connectors and by updating some of the existing connectors. With the new version, once users have created a report's they can choose the workspace where they want to save the report. This increases the capabilities of shared datasets, as users now have the ability to save reports created online in a different workspace from the workspace where the original dataset is located.