**Power BI Assignment 3**

1. List and explain different PowerBi products?

**Ans** –

**1) 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.

**2) Power BI PRO**

* Self-service BI in the cloud.
* Creating, editing and sharing reports and dashboards among users.
* Collaboration in personal and team workspaces.
* 10 GB of storage per user

**3) 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.

**4) 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?

**Ans** - Excel comes with some major drawbacks that make it a difficult tool to work with. Users might be comfortable in Excel but most don’t know how limited they are and how much more efficient they could be.

* Difficult collaboration
* Data integrity/security risks
* Outdated and unreliable data due to exports
* Slow and limited data intake
* Not scalable

1) **Great Cloud-based features**: Power BI (Pro) is made for collaboration.

Unlike in Excel where you’ll have to email the file around or in a portal, Power BI makes it easier. There’s a cloud service called “Power BI Service” where you can publish your data.

2) **Store large amounts of data**: In Excel, you’ll have trouble opening a file with more than 500 MB in size.

But it won’t happen in Power BI. This program uses powerful compression algorithms to import and cache data.

3) **Ideal for dashboards**, KPI, and alerts: This is another edge of Power BI.

In Excel, you’ll have to use [dashboard templates](https://spreadsheeto.com/dashboard-templates/) so you’ll have a quick view of the KPI in one place. But it’s different in Power BI.

4) **Slightly improved visualizations**: Although Excel has more advanced graphs and charts, Power BI has more beautiful visualizations.

1. Explain PowerQuery?

Ans - The **Power Query**helps you to connect to sources, shape and transform the data to meet your needs.

Power Query is Microsoft’s Data Connectivity and Data Preparation technology. It basically, enables business users to access data stored in data sources seamlessly whilst, reshaping it to fit their needs. It’s easy to use, engaging, even convenient to use for the no-code users.

1. Explain PowerMap?

**Ans** –

Power BI maps are integrated with “Bing Maps” to coordinate with location names from the data. So, we can create two kinds of map visuals in Power BI. One is a “Bubble Maps,” and another is a “Filled Maps.” Bing recognizes the location name, address, or any geographical attribute and plots the selected data on the map.

### **Things to Remember**

* The map visual requires the exact location name to identify the location on the map.
* The size should always be the numerical data set to show the bubble size.
* We can increase, decrease the bubble size and change each bubble’s colors to a different color.

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

**Ans –**

* The DMG must be installed on a non-SQL server in your on premises environment.
* A new Gateway must be created via your bi admin center.
* You must register the gateway with the on premises DMG client.
* You can then store your credentials for the data sources on premises OR in the cloud. The benefit to storing the creds in the cloud is you can recover quicker from a system failure.

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

**Ans** -

* Admin & governance
* Email subscriptions access via Admin API
* Allow sharing links to include your changes to the report
* Announcing Public Preview of Hybrid Tables in Power BI Premium
* Deployment pipelines: assign a workspace to all pipeline stages