**Power BI Assignment 3**

1. List and explain different Power BI products?

Answer:

Power BI Dash Board:

Creating and editing customized reports for every level of expertise. It supports Data ingestion from hundreds of supported data sources. It helps in Data transformation, cleaning, data model creation with built-in Power Query Editor. It is AI-driven analytics. It is Interactive reporting with pre-built or custom visuals.

Power BI pro is Self-service BI in the cloud. It helps in Creating, editing and sharing reports and dashboards among users. It provides Collaboration in personal and team workspaces. It provides 10 GB of storage per user.

Power BI Premium is Enterprise BI both on-premises and in the cloud. It is a Dedicated storage (100 TB) and compute resources. It helps in Consumption of Power BI content without individual licensing. It helps in Maintaining BI assets on-premises with the Power BI Report server. It provides Paginated reporting and multi-geo capability.

Power BI Embedded is Reports, dashboards and visual analytics embedded into applications. It is An extensive library of data connectors, APIs, and fully documented SDKs.

1. What limitations of Excel, Microsoft solved by Power BI?

In excel it is difficult to manage reports from different people like managers analyst or other departments. By building a [Workspace](https://docs.microsoft.com/en-us/power-bi/service-new-workspaces) in Power BI, you can give your company the advantage of structuring and associating data schema into one place. By implementing [Row-Level Security](https://docs.microsoft.com/en-us/power-bi/service-admin-rls) you can specify each set of data for a user or group. This means less analysis time needed, as just one view would be built for Power BI to deliver based on the predefined rules. Moreover the cloud services in power BI made it easy to moving and sharing data. Data can be uploaded from different on premise sources or reported directly from multiple cloud sources like AWS, Azure etc.

1. Explain Power Query?

Power Query is a data preparation and data transformation tool. It comes with a interface for getting data from sources and an power editor to edit or transform data. It is and ETL engine which lets you connect to different data sources. It is available in both Microsoft excel as well as Power BI. It helps in saving users hours of time, reducing manual errors, and allowing users to source data from a central source of truth.

1. Explain Power Map?

It is used to map geographic data. What is the purpose of power map?

A power map lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts. Power Map aims to supplement existing mapping capabilities already available in Power View. Both tools rely on the Bing Maps service to serve up maps and geocode data. Power View displays maps in more of a classic reporting and analytical view, whereas Power Map is ideal for creating a story about geographic data.

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

Now, customers can use [Power BI](https://powerbi.microsoft.com/) 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, Providing easier ways to report on your data in SharePoint, Power Pivot Scheduled Data Refresh, Modern Authentication support.

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

In newer version the logo has been changed

There are now two different sections in the “Get Data” of your workspace which each of them have two parts:

**Content Pack Library**

**My Organization** : from here you can easily create your organizational content packs. A content pack is basically a single repository to keep datasets, reports, dashboards, Q&A, integration with other data sources, data refresh and more. You can also package up and publish your dashboards, reports and datasets with your colleagues in a specific group or the entire organization. You can also browse the content packs that other people in your organization published.

Services: you can use lots of online services built to connect to different platforms like Microsoft Dynamics CRM, Microsoft Dynamics Marketing, Visual Studio Online , and much more.

**Import Or Connect to Data**

Files: You can upload your reports, data or workbooks from Excel, Power BI Desktop or CSV files. The location of the files could be your local hard drive, on OneDrive Business or One Drive Personal.

Databases: You can connect to Azure SQL Database, Azure SQL Data Warehouse, SQL Server Analysis Services Tabular Model or Azure HDInsight (Spark) and browse your live data.

**Power BI for Office 365**

Now you can easily switch to your Power BI for Office 365 account. There is also a link for Power BI which is newly added to Power BI 365.

**Manage Personal Storage**

Click on Manage Personal Storage to see how you consumed your storage. You can also see the volume consumed by the datasets that are shared with you by clicking on “Owned by Others.”