**Power BI Assignment 3**

1. List and explain different Power Bi products?

Answer: Different Power Bi products are listed below.

* Power Bi Desktop- It lets to connect to broad range of database, publish visualization on public online spaces.
* Power Bi Pro-It gives users more control over report sharing, with features that enable role specific data protection, project collaboration and simplified circulation.
* Power Bi Premium -It is for large scale analysis , increased distribution ability and more options for deployment.
* Power Bi Mobile-It lets you to view live dashboard and reports on mobile devices and share them directly with team members from the app.
* Power Bi Embedded – It allows users to deploy analytics and ensures data security in single and multiple-tenant deployments.
* Power Bi Report Server- It allows to public the reports on the server and share them with other users.

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

Answer:

* Answer: PowerBi can handle much large amounts of data as compared to excel.
* Excel can connect to limited number data sources however, PowerBi has wide range of data sources.
* PowerBi has faster processing than excel.
* Power Bi dashboard are more visually appealing, interactive and customizable as compared to Excel.
* Unlike Excel, PowerBi provides cloud based features from where reports can be published and shared.
* PowerBi offers high level analytics as compared to Excel.
* PowerBi is more friendly with mobile devices while excel is not.

1. Explain PowerQuery?

Answer: Power Query is data transformation tool available in both Excel and Power Bi. This tool is used to connect to data sources , shape and transform the data. We can also modify the data in hand to meet our needs. It saves time and reduces errors and a better ability to get right insights from data. We can also Marge related tables and combine multiple files with it. Moreover, With power Query editor, we can filter the data as well, create custom columns and measures. Most of cleansing of data can be done with help of Power Query. We can change the datatype of columns, split them as our requirements.

1. Explain PowerMap?

Answer: Power Map is tool used to get more insights with 3 dimensional globe or map where we can plot data and create visual reports which can be shared to other members. It is a great way to visualize the data that represents locations.

Using maps, we can show insights about quantity that are connected to certain locations. For example, we want to see the sales of various branches of company in all-over world, Maps is the best visualization tool to present it.

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

Answer:

SharePoint is an important part of how many organisations orginse and distribute the BI content to users. Power Bi invested in modernizing and creating the deeper integrations with sharepoint so they introduced Power Bi Webpart for SharePoint online and updated reporting services report viewer webpart for sharepoint on-premises. Customers like the flexibility this option give them to build high customized sharepoint experiences using BI Content. Users 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. That has been done by

* Adding support for all major report types across both platforms
* Providing easier way to report on your data in SharePoint.
* Power Pivot Scheduled data refresh
* Modern Authentication approach

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

Answer: In Power Bi Service 2.0 , New features had been added

* Get data: Get data button from bottom of the left navigation has been added . we can see that button after signing in.
* There were two different sections in the get data of the workspace which each has two parts: Content pack Library which has my organisation and services options. And second part was import or connect the data which has files ands databases options. With files, you can upload the data and workbook from excel, powerbi desktop, csv files. The location of the files could be local hard drive on onedrive business and one drive personal. And with databases, you can connect to Azure SQL database, Azure SQL data warehouse, SQL server Analysis services tabular model and browse the live data.
* Under the content pack library, we can create the content pack and publish in my organisation. When we click on content pack created, we need to connect then we can create dashboard, reports and etc. Other team members can also view them as well as they have access too.
* Report’s features are improved too. We can get to change the chart’s colours, adding free texts into text box and much more under visualization pane.
* Under settings, we can manage personal storage as well. We can also see the volume consumed by the datasets that are shared with you.