

## Power BI Assignment 3

### 1. Following are the different PowerBi products

- **Power BI DESKTOP** - a window desktop application for data analysis and reports creation.
- **PowerBi service** - online software as a service, used to collaborate and distrusted Power Bi reports.
- **PowerBi mobile** - a native mobile app.
- **power bi report builder** - a tool for creating reports.
- **Powe report server** - an on-premises report server.
- **PowerBi embedded** - a service to embedded visuals, reports, and dashboards into an application.

### 2. Following are the limitations of Excel which are Microsoft solved by PowerBi:

- Power BI is very much faster in processing when comparing Microsoft Excel.
- Power BI can smoothly handle a large amount of data, while Microsoft Excel is limited to some extent of data.
- Power BI handles Big Data, while Microsoft Excel cannot handle Big Data.
- Power BI can connect with different varieties of sources, while Microsoft Excel can connect to limited sources.
- Power BI dashboards are more interactive and custom, while Microsoft Excel dashboards are less interactive.
- Power BI is easy to use and very flexible, while Microsoft Excel is not so handy.
- Power BI is mostly used for data visualizations and dashboard sharing too many users, while Microsoft Excel is mostly used for in-depth driver analysis.
- Power BI is a more powerful tool comparing Microsoft Excel.
- Power BI is more friendly with mobile devices because of iOS, Android, and Windows apps, while Microsoft Excel is not mobile-friendly.

### 3. PowerQuery:

Power Query is the data connectivity and data preparation technology that enables end users to seamlessly import and reshape data from within a wide range of Microsoft products, including Excel, Power BI, Analysis Services, Dataverse, and more. 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.

#### **4. PowerMap:**

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. Microsoft has given many such options and functions in Power BI which are not easy to use in MS Excel. Maps are one of those charts in Power BI. A power map lets you discover insights you might not see in traditional two-dimensional (2-D) tables and charts. 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. Y

**5.** Using Power BI for your SharePoint portal can help you to boost user adoption and engagement. It gives you the ability to measure and analyze your employees' actions in SharePoint to discover who are your top users and who needs more support and training. With SharePoint, some of the top metrics to track are adoption and engagement. With Power BI's Office 365 adoption content pack, it's easy to find out the exact information you're looking for. With Power BI Report Server, you can host reports fully on-premises without needing a Power BI website. You will not need a gateway, and all types of connections (Scheduled Refresh, Direct Query, and Live Connection) are supported (Except the composite model).

**6.** Following are the updates done in Power Bi Service (power BI 2.0) as compared to older version:

- a) Reverse stack order for stacked column charts.
- b) Query performance improvements.
- c) Power BI Metrics
- d) Analytics - Quick measure suggestions - experimental feature.
- e) Relationship editing in the properties pane preview.
- f) DAX formula bar support for Power BI Desktop model view.
- g) Data connectivity - Introducing tenant setting for Power BI DataMart's (preview).
- h) e. Power BI Ideas website enhancements.