

## Power BI Assignment 3

### 1. List and explain different Power BI products?

Ans: a. Power BI Desktop: A Windows Desktop application for data analysis and reports making.  
b. Power BI Service: An online software as a service, used to collaborate and publish Power BI reports.  
c. Power BI mobile: Access and view Power BI dashboards and live reports on mobile devices such as IOS and Android.  
d. Power BI Report Builder: A tool for creating Paginated reports that can be published to Power BI.  
e. Power BI Report Server: Power BI Report Server is an on-premises reporting solution that can be moved to the cloud tomorrow. You can transition to the cloud at your own pace because it is a part of Power BI Premium.  
f. Power BI Embedded: You can embed Power BI products like reports, dashboards, and tiles in a website or a web application thanks to embedded analytics in Power BI.

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

Ans: Excel is used to arrange data, manipulate it, then carry out computations and mathematical procedures. Power BI, on the other hand, was designed as a business intelligence and data visualization tool.

- a. The amount of information that Excel can handle has limits. Power BI, in comparison, can manage far more data.
- b. While Excel's connectivity options are restricted, Power BI can connect to a vast number of data sources. Furthermore, Power BI is much easier to utilize on mobile devices than Excel is.
- c. Excel can be processed more quickly than Power BI.
- d. In comparison to Excel dashboards, Power BI dashboards are more aesthetically pleasing, interactive, and configurable.
- e. Compared to Excel, Power BI is a more potent tool for comparing tables, reports, or data files.

### 3. Explain Power Query?

Ans: Power Query is a crucial tool for any analyst working since it allows users to source data in various formats while saving users hours of time and minimizing human mistakes. Power Query can successfully automate time-consuming manual tasks by remembering the user's data transformation actions. Modifying data layout, connecting to central data sources, merging related tables, and combining numerous data are common use cases.

#### **4. Explain Power Map?**

Ans: Microsoft Power map is an effective data visualization application that enable to us to see data in variety of ways More than a million sets of data can be visually plotted in 3D format. By looking at our data in a geographical context and tracking changes over time, we can gain new insights. We have 4 map types in in Power BI.

1. Basic Map: Used to plot the numerical distribution of data in the form of data points.
2. Filled Map: These are used to plot the geographical distribution of categorical data.
3. Shape Map: It is used to plot Power BI custom map visuals.
4. ArcGIS Map: This is most advanced type of map supported by Power BI. It allows you to plot maps containing street view and heat maps, with advanced customization options.

#### **5. How power BI eliminated the need to host SharePoint Server on premises?**

Ans: A large number of companies utilize SharePoint to manage and provide BI material to consumers. Power BI have made investments in upgrading and building more complex connections with SharePoint since Power BI team understand how crucial this strategy is. The Power BI webpart for SharePoint Online and an improved Reporting Services Report Viewer webpart for SharePoint on-premises were also released over the last year. Customers like the freedom it enables them to use their BI content to create highly personalized SharePoint experiences. By eliminating the SharePoint integrated mode from Reporting Services deployment options while still allowing integration with SharePoint using the new web element, SharePoint 2019 keeps up with the goal we initially stated in our Reporting Services blog. The changes were made to enable us to develop and deliver integration features more quickly and often, better meeting the demands of customers both now and in the future. This decision was based on the constant input from Power BI users.

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

Ans: • Get Data: Click the Get Data button. The workspace has two different "Get Data" sections, each consisting of two parts of him: at the bottom of the left navigation pane. a. Content Pack Libraries and b. Importing or Connecting Data. • Reporting: The reporting functionality has been significantly improved. You can change the colors of the graph and insert free text into the Text Box. • Settings: You now have more control over Power BI. Click the "Settings" button. B. Manage personal storage, create content packs, view content packs, and Power BI for Office 365.