

# Power BI Assignment 3

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

Answer:

**Power BI Desktop**-The Windows desktop-based application for PCs and desktops, primarily for designing and publishing reports to the Service.

**Power BI Service**- The SaaS-based (software as a service) online service. This was formerly known as Power BI for Office 365, now referred to as PowerBI.com, or simply Power BI.

**Power BI Mobile Apps**- The Power BI Mobile apps for Android and iOS devices, as well as for Windows phones and tablets.

**Power BI Gateway**- Gateways are used to sync external data in and out of Power BI and are required for automated refreshes. In Enterprise mode, can also be used by Power Automate (previously called Flows) and PowerApps in Office 365.

**Power BI Embedded**- Power BI REST API can be used to build dashboards and reports into the custom applications that serves Power BI users, as well as non-Power BI users.

**Power BI Report Server**- An on-premises Power BI reporting solution for companies that won't or can't store data in the cloud-based Power BI Service.

**Power BI Premium**- Capacity-based offering that includes flexibility to publish reports broadly across an enterprise, without requiring recipients to be licensed individually per user. Greater scale and performance than shared capacity in the Power BI Service

**Power BI Visuals Marketplace**- A marketplace of custom visuals and R-powered visuals. You can give life to your business data and take insight from this result.

**Power BI Dataflow**- A Power Query implementation in the cloud that can be used for data transformations to make a common Power BI Dataset that can be made available for several report developers through Microsoft's Common Data Service. It can be used as an alternative to for example doing transformations in SSAS, and may ensure that several report developers use data that has been transformed in a similar way.

**Power BI Dataset**- A Power BI Dataset can work as a collection of data for use in Power BI reports, and can either be connected to or imported into a Power BI Report. A Dataset can be connected to and get its source data through one or more Dataflows.

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

Answer: Excel has limitations in the amount of data it can work with. In contrast, Power BI can handle much larger amounts of data. Power BI can connect to a large number of data sources, while Excel's **connectivity capacity is limited**. Also, unlike Excel, Power BI can be easily used from mobile devices. Power BI has faster processing than Excel. Power BI is a more powerful tool than Excel in terms of comparison between tables, reports, or data files. Power BI is more user friendly and easy to use than Excel.

## 3. Explain Power Query?

Answer: 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, we can perform the extract, transform, and load (ETL) processing of data.

#### 4.Explain Power Map?

**Answer:** Power Map is a Map technology that is used inside Power BI, by its customers, to visualize their data by putting them through geographical areas in a map. And that helps in more interactive and tangible visualizations that enhance easy-to-understand content and help in quickly gaining insights from large datasets.

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

**Answer:** 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.** In the coming weeks, we'll have the first public preview of Paginated (RDL) reports in Power BI Premium, giving customers full support for Paginated Reports, Power BI Reports and Excel Workbooks in Power BI.
- **Providing easier ways to report on your data in SharePoint.** We've recently announced new functionality to make easier than ever to start visualizing your Excel tables and CSV files stored in SharePoint Online in Power BI.

Additionally, for Power BI Report Server, we're adding some new features that already exist in Power BI, but were previously available only through SharePoint integration for on-premises deployments. These include –

- **Power Pivot Scheduled Data Refresh.** We first added support for Excel Workbooks in Power BI Report Server in October 2017, including the hosting and viewing of Excel Workbooks containing data models. We'll be expanding this support to include scheduled data refresh of these workbooks.
- **Modern Authentication support.** Security considerations are a key part of any BI deployment strategy, and many customers used SharePoint to handle claims-based authentication scenarios for their users. We're adding native support for ADFS/AAD authentication to Power BI Report Server in an upcoming release.

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

**Answer:**

- Conditional formatting for data labels
- New *Select sensitivity label* dialog
- Data loss prevention policy update
- Metric visual (preview)
- Mobile formatting now supports text box visuals
- DAX Editor improvements
- MariaDB (connector update)
- Google Sheets (connector update)

- Certified connectors availability in Power BI dataflows and datemarks
- New visuals in AppSource
- More ways to optimize Power BI performance
- Release notes and ideas update

**End**