

Power BI Assignment 3

1. List and explain different PowerBi products?

Ans:-

- Power BI Desktop
- Power BI Service
- Power BI Mobile
- Power BI Report Builder
- Power BI Report Server
- Power BI Embedded

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

Ans:-

EXCEL

POWER BI

	EXCEL	POWER BI
01. Tabular reports	Ideal for creating reports in tabular format.	Creating tabular reports is more limited.
02. Duplicated tables	Allows you to display duplicated tables.	Cannot display duplicated tables.
03. Reports	Simpler and less attractive reports than those of Power BI.	More beautiful, personalized, attractive and interactive reports.
04. Crossed filters	No advanced cross-filtering between graphics.	Supports advanced cross-filtering features between charts.
05. Charts and visuals	It has the most advanced and newest charting features, but cannot be connected to the data models.	Optimal for dashboards, alerts and KPIs. Includes better visuals than Excel and allows data to be analyzed visually.
06. Automatic update	Data is not automatically updated.	Data is automatically updated.
07. Availability	Reports are limited to a specific number of users.	Reports can be worked on by a large number of users, whether they are experts or not.
08. Analytics	Fewer data analysis options than Power BI.	More powerful analytical capabilities than Excel.
09. Data model	Ability to work on simple and structured data models.	Ideal for building complex data models easily.
10. Separate tables	It is difficult to connect separate tables.	Separate tables can be easily related to each other.
11. Tool	It is a traditional spreadsheet program with a lot of features.	It is the advanced version of a data analysis tool, with a great amount of possibilities to work with the data.
12. Collaborative work	Sharing documents and working with others is complex.	Sharing data and reports is easy with Power BI.
13. Big Data	Can handle a limited amount of data.	Allows you to process much larger data sets.
14. Dashboards	Users have limited features for creating dashboards.	More advanced features for creating custom dashboards.
15. Processing	Slower processing than Power BI.	Faster processing than Excel.
16. Utility	Mostly used to organize data, perform calculations, mathematical formulas and create more complex tabular reports.	Used to create and share dashboards, as well as to develop powerful data visualizations.
17. Data Model Language	MDX Language	DAX Language
18. Connectivity	Limited connectivity with other applications and systems.	You can extract data from virtually any platform, software and application.
19. Price	Payment tool.	It has a free version and a payment version.
20. Usability	More difficult to use than Power BI.	Easy to use compared to Excel.

3. Explain PowerQuery?

Ans:- Power Query is a data transformation and data preparation tools. 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 PowerMap?

Ans:- Power Map:- A power map lets us discover insights we might not see in traditional two-dimensional (2-D) tables and charts. With Power Map, we can plot geographic and temporal data on a 3-D globe or custom map, show it over time, and create visual tours we can share with other people. In Power Map we can do the following things:- **Map data** , **Discover insights** **Share stories** , Capture screenshots and build cinematic, guided video tours you can share broadly, engaging audiences like never before.

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

Ans:- Due to the following reasons:-

- Heavy technology investment over the years created a dependency on SharePoint on-premises.
- Compliance can make it prohibitively expensive or complex to store data in the cloud.
- Some customizations are not available in SharePoint Online. Few examples include:
 - Store limits in SharePoint Online:
 - SharePoint Online API limitations.
- Many experts worry that Microsoft updates in SharePoint Online carry more risks of inadvertently disrupting customizations in a customer environment.

- It is said that SharePoint on-premises offers more flexibility to roll back updates, which is not available in shared SharePoint Online tenant infrastructure.

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

Ans:- The Major updates are mentioned below:-

1. The format pane gets a makeover
2. Two new navigators: Page and bookmark navigators
3. New dashboard visual and new visuals available in the AppSource
4. New data connectors
5. We can choose the workspace where we want to save the report