

Assignment - 3

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1 ⇒ List and explain different Power BI products?
Soln - Power BI Desktop -

It is main Power BI Application where an Analyst can connect application to multiple data sources and analyze data to create reports to business stakeholders. This product comes with free, pro and premium versions which costs accordingly. Free version doesn't allow analyst to share reports to other users.

Soln - Power BI Service -

It is a product where stakeholders can get access to reports created by developer/Analyst to see performance of their business or whatever task assigned to the team. Stakeholders can get access to them once analyst publishes them in the shared workspace. They can also create and modify dashboards of their own.

Soln - Power BI Mobile -

It is similar to Power BI Service. Stakeholders can access the reports and dashboards through Mobile/Tablet device and view them. It is meant only for viewing contents which means users can't create dashboards in this platform.

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

Soln - (1) The minimum number of rows and columns is limited in Excel. Power BI doesn't limit users on dimension of data.

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

Soln - (1) The maximum number of rows and columns is limited in Excel. Power BI doesn't limit users on dimension of data.

- (ii) Power BI exceeds Excel features in data sources. Power BI can get multiple, static, dynamic and streaming data. These are available data sources.
- (iii) The charts and visualizations are much advanced and interactive in Power BI.
- (iv) The analytical engine in Power BI is much more faster than Excel which can save hours in processing.

3 ⇒ Explain Power Query?

Soln - Power Query is the heart of Power BI. Power Query Editor allows users to transform data and create queries in much faster way and load them to main window. Power BI includes a massive variety of ways to transform data. Power Query is just one piece of the suite of Power BI and Excel products from Microsoft.

These data transformation could include tasks like.

- Remove columns, rows, blanks
 - Convert data types - text, numbers, dates
 - Split or merge columns
 - Sort & filter columns
 - Add calculated columns
 - Aggregate or summarize data
 - Find & replace text
 - Unpivot data to use for pivot table
- It is the mostly used tool by the analyst.

4 ⇒ Explain PowerMap?

Soln- Power Map feature comes with Power BI as well as Excel from Microsoft. It is a data 3D-visualization tool that lets you map your data and plot more than a million rows of data visually on Bing maps in 3-D format. It is used to plot geo-spatial data in 3D mode. Based on a geographical location, the data can be highlighted.

5 ⇒ How Power BI eliminated the need to host SharePoint Server on premises?

There has been a lot of buzz and questions around connecting your office 365 tenant to data located on premises. This is a common requirement and is now made possible with Power BI.

Connecting to your data source is made possible with the Data Management Gateway (DMG). The awesome part of the DMG is that it makes the connection outside the firewall. That means, no reverse proxy, custom web services or firewalls to deal with!

— The DMG must be installed on a non-SQL server in your on premises environment. I could not get anything to work on my SQL server so I am thinking this has to be done on a member server.

- A new gateway must be created via your bi admin center.
- You must register the gateway with on premises DMS client.
- You can then store credentials for the data sources on ~~the~~ premises OR in the cloud.
- The benefit to storing the creds in the cloud is you can recover quicker from a system failure.

6. Explain the updates done in power BI service (Power BI 2.0) as compared to older versions?
- Admin & governance
 - Email subscriptions access via admin API
 - Allow sharing links to include your changes to the report.
 - Announcing Public Review of Hybrid Tables in Power BI Premium
 - Deployment pipelines: assign a workspace to each pipeline stages