

Power Bi Assignment 3 (Ineuron.ai)

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1) List and explain different Power Bi products?

Ans

Power bi Desktop

- Creating and editing customized reports for every level of expertise.
- Data ingestion from hundreds of supported data sources.
- Data transformation, cleaning, data model creation with built-in Power Query Editor.
- AI-driven analytics.
- Interactive reporting with pre-built or custom visual

Power bi Pro

- Self-service BI in the cloud.
- Creating, editing and sharing reports and dashboards among users.
- Collaboration in personal and team workspaces.
- 10 GB of storage per user.

Power bi Premium

- Enterprise BI both on-premises and in the cloud.
- Dedicated storage (100 TB) and compute resources.
- Consumption of Power BI content without individual licensing.
- Maintaining BI assets on-premises with the Power BI Report server.

- Paginated reporting.
- Multi-geo capability.

Power bi Embedded

- Reports, dashboards and visual analytics embedded into applications.
- An extensive library of data connectors, APIs, and fully documented SDKs.

2) What limitations of Excel, Microsoft solved by Power Bi?

Ans

Limitation of excel

Excel requires a **significant amount of manual effort to compile data**

With all that manual entry comes **the risk of human error**

Another downfall of Excel reporting is that it **doesn't show data in real time**

Finally, one big problem with Excel is **its lack of security**.

Limitation overcame by Power bi

- Key Functionality. The drag and drop function can generate reports quickly. ...
- Highly Secure. Power BI set up automatic data refresh and publish reports allowing all the users to avail the latest information.
- Existing App Integration. ...
- Cloud Integration. ...
- Personalized Dashboards.

3) Explain Power Query ?

Ans

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, Data verse, 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.

Currently, two Power Query experiences are available:

Power Query Online—Found in integrations such as Power BI dataflows, Microsoft Power Platform dataflows, Azure Data Factory wrangling dataflows, and many more that provide the experience through an online webpage.

Power Query for Desktop—Found in integrations such as Power Query for Excel and Power BI Desktop.

4) Explain Power Map ?

Ans

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.

With Power Map you can do following things

Map data - Plot more than a million rows of data visually on Bing maps in 3-D format from an Excel table or Data Model in Excel.

Discover insights - Gain new understandings by viewing your data in geographic space and seeing time-stamped data change over time.

Share stories - Capture screenshots and build cinematic, guided video tours you can share broadly, engaging audiences like never before. Or export tours to video and share them that way as well.

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

Ans .

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 ?

Ans

Reporting

- New mobile formatting options **Preview**
- Sensitivity labels downstream Inheritance **Generally available**
- Default label policies in Power BI **Generally available**
- Mandatory label policy **Generally available**
- New Format Pane **Preview** – On by default
- Multi row card selection

Data Preparation

- Dynamic M Query Parameters now supports SQL Server and more data sources **Preview**

Data connectivity

- Amazon OpenSearch Service (New Connector)
- OpenSearch Project (New Connector)
- Digital Construction Works Insights (New Connector)
- Azure Databricks (Connector Update)
- BQE Core (Connector Update)
- MicroStrategy (Connector Update)
- Starburst Enterprise (Connector Update)

Visualizations

- New visuals in AppSource
- The editor's pick for this quarter
- Download visual's sample file from the in-product AppSource
- Drill Down Graph PRO by Zoom Charts
- Plotly.js visual by Akvelon
- HTML Text Styler 2.0 (Microsoft certified)
- Multiple Sparklines by Excelnaccess.com
- Merged Bar Chart by Nova Silva
- Financial Reporting Matrix by Profit base
- Inforiver premium edition by Lumel
- Zebra BI Tables version 5.2 by Zebra BI

