**Power BI Assignment 3**

1. List and explain different PowerBi products?

Ans:

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| --- | --- | --- | --- | --- |
|  | **Power BI Desktop** | **Power BI Pro** | **Power BI Premium** | **Power BI Embedded** |
| **Features** | *Creating and editing customized reports for every level of expertise.* | *1) Creating, editing and sharing reports and dashboards among users 2) 10 GB of storage per user* | *1) Enterprise BI both on-premises and in the cloud 2) Dedicated storage (100 TB)* | *1) Reports, dashboards and visual analytics embedded into applications. 2) An extensive library of data connectors, APIs, and fully documented SDK* |
| **Cost** | *Free* | *$9.99 user/month* | *$4,995 dedicated cloud storage and compute resources/month with an annual subscription* | *Pay-as-you-go: from $1.0081/hour to $32.2506/hour* |

1. What limitations of Excel, Microsoft solved by Power Bi?

*Ans: Limitations of Excel in comparison to Power BI:*

* ***Row limitation****: 1,048,576*
* ***Data sources*** *options are limited in Excel*
* ***Visualization*** *are not with wider options and might lead to suffocate insight derivation.*
* ***Cloud based support*** *are not laid out in support of Dashboard sharing.*
* ***Cost:*** *Excel is free of cost*
* ***Data Security:*** *Power BI has the most encrypted options like row level security, where it’s missing in Excel*.

1. Explain PowerQuery?

*Ans: Power Query is the tab which enables user to transform the raw data. It acts/ supports as ETL tool in transforming the data/ cleaning/ manipulating the data by Mashup query language (M lang) and the advanced editor is the another option to alter the default actions processed under PQ.*

*The Data from different sources could be edited here and combined/ convert into one usable data play to derive insight and make business decisions.*

1. Explain PowerMap?

*Ans: Power BI has 2D and 3D maps, which supports to plot the countries as per the dataset. Ex: Sales based on region/ profit based on Geo.*

*It helps discover insights which might not be seen 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*

1. How PowerBi eliminated the need to host SharePoint Server on premises?

Ans: SharePoint is vital in organization- however, Power BI has introduced Power BI webpart for SharePoint Online. Power BI could be optionally integrated with the content into SharePoint 2019 and SharePoint Online, using either Power BI or Power BI Report Server.

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

Ans: The following updates are new to the Power BI service:

* Guest users can create their own email subscriptions
* Downloading a PBIX available for more scenarios
* Administration and governance
* Deployment pipelines update