**Power BI Assignment 2**

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Q1:- Explain the advantages of Natural Queries in PowerBi with an example?

Ans:-

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Q2:- Explain Web Front End(WFE) cluster from Power BI Service Architecture?

Ans:- The Web Front End Cluster plays the role of managing the initial connection between the back-end cluster and the end-user. In addition to that, it offers several tokens for connecting clients to the Power BI Service.

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Q3:- Explain Back End cluster from Power BI Service Architecture?

Ans:- Back End Cluster The Power BI services at the back end take care of visualizations, datasets, storage, reports, data connections, data refreshing, and other interactions with Power BI. At the back-end, a web client has only two direct points of interaction, Azure API Management, and Gateway Role.

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Q4:- What ASP.NET component does in Power BI Service Architecture?

Ans:- The Power BI web sample shows how to use ASP.NET to create a Power BI web app. The sample uses an ASP.NET Model-View-Controller (MVC). The MVC architectural pattern separates an application into three main components: the model, the view, and the controller.

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Q5:- Compare Microsoft Excel and PowerBI Desktop on the following features:

Ans:- Excel has Power BI Both are very important tool in data analyses.

1. Data import: - Both the applications are capable of importing data from multiple sources but Power BI has More options than Excel.
2. Data transformation: - Both have Power queries for data transformation but Excel is simpler and has more easy options for Data transformation.
3. Modeling:- No doubt Power BI is the beast option for Data Modeling and visualization
4. Reporting: - Power BI has a separate feature to send reports to everyone which is more advance, Ans excel does not have any reporting feature.
5. Server Deployment: - Power BI is good at Server Deployment than Excel.
6. Convert Models: - Power BI is good at Convert Models than Excel.
7. Cost: - After purchasing We do not have to pay anything to use Excel, But in Power BI We have to pay monthly charges to use Power BI Services.

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Q6: - List 20 data sources supported by Power BI desktop.

Ans: - List 20 data sources supported by Power BI desktop mentioned below:-

1. Excel
2. Text/CSV File
3. XML
4. JSON
5. Share Point
6. Access
7. SQL Server
8. Oracle
9. IBM Database
10. My SQL Database
11. Sybase Database
12. SAP HANA Database
13. Impala
14. Google Big Query
15. Vertica
16. Azure
17. R Script
18. Python Script
19. Dataverse
20. Web.

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