**Power BI Assignment 2**

1. Explain the advantages of Natural Queries in Power BI with an example?

🡪 There are various advantages of Natural Queries in Power BI Such as

If we have unstructured data at that time, it’s helpful to structure that data in

a meaningful format and also helpful to analyze it.

It’s also helpful to analyze large-scale data.

1. Explain Web Front End (WFE) cluster from Power BI Service Architecture?

🡪 The Web Front End cluster manage the initial connection and authentication to the

Power BI Service.

1. Explain Back End cluster from Power BI Service Architecture?

🡪 The back-end cluster manages datasets, storage, reports, visualizations, data

connections, data refreshing, and other services in Power BI.

The Back-End cluster determines how authenticated clients interact with the

Power BI service.

1. What ASP.NET component does in Power BI Service Architecture?

🡪 It’s Embedded the Power BI Service with ASP.Net

1. Compare Microsoft Excel and Power Bi Desktop on the following features:

Data Import

Data transformation

Modelling

Reporting

Server Deployment

Convert Models

Cost

🡪 Data import – Excel has limited capacity as compared to Power Bi and Power

BI can connect larger datasets.

Data transformation - Power BI is more focused on data processing and analysis in business environments, while Microsoft Excel has more general applications.

Modelling- Power BI creates dynamic and interactive visualizations, while Excel provides static charts and graphs.

Excel Works with simple and structured data models.

Whereas Power BI is Ideal for quickly creating complex data models.

Reporting- Excel has limitations in the amount of data it can work and report with. In contrast, Power BI can handle much larger amounts of data and It can create multiple reports.

Server Deployment – We can deploy data on the server in Power Bi. Basically, we can retrieve data from the server in Power BI but in Excel, we can’t do deployment like Power BI.

Cost - Power BI Desktop is free to download and use for personal use, but it takes $10 per month per user to share reports with others. Since we already have Excel, we need to spend additional money to procure this and build dashboards.

1. List 20 data sources supported by Power Bi desktop.

🡪 SQL Server database

1. Access database

2. SQL Server Analysis Services database

3. Oracle database

4. IBM Db2 database

5. IBM Informix database (Beta)

6. IBM Netezza

7. MySQL database

8. PostgreSQL database

9. Sybase database

10. Teradata database

11. SAP HANA database

12. Amazon Redshift

13. Impala

14. Google BigQuery

15. Google BigQuery (Azure AD)(Beta)

16. Vertica

17. Snowflake

18. Essbase

19. Actian (Beta)

20. Amazon Athena