

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

ANS. User-friendly interaction, increased accessibility, Faster insights, Adaptability.

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

ANS. The WFE cluster manages the initial connection and authentication to the Power BI service.

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

ANS. The Back-End cluster determines how authenticated clients interact with the Power BI service.

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

ANS. Web Interface, Rest API, Authentication, Custom Visual, Integration with Azure, Embedded.

5. Compare Microsoft Excel and PowerBi Desktop on the following features: Data import Data transformation Modelling Reporting Server Deployment Convert Models Cost

ANS.

****Data Import:****

- ****Excel:**** Supports importing from various sources, but may be less versatile for complex data.

- ****Power BI Desktop:**** Extensive data source compatibility, better suited for diverse and large datasets.

****Data Transformation:****

- ****Excel:**** Power Query for transformation, but not as advanced as Power BI Desktop.
- ****Power BI Desktop:**** Robust Power Query Editor for sophisticated data transformation.

****Modelling:****

- ****Excel:**** Basic data modelling features, suitable for simpler scenarios.
- ****Power BI Desktop:**** Advanced data modelling capabilities with relationships, measures, and hierarchies.

****Reporting:****

- ****Excel:**** Limited reporting features compared to Power BI Desktop.
- ****Power BI Desktop:**** Optimised for interactive, visually appealing reports with a wide range of visualisations.

****Server Deployment:****

- ****Excel:**** Collaboration via cloud platforms, but lacks centralised management.
- ****Power BI Desktop:**** Centralised sharing, collaboration, and governance features through Power BI Service.

****Convert Models:****

- Both support model conversion, but adjustments may be needed for seamless transition.

****Cost:****

- ****Excel:**** Part of Microsoft 365 suite, cost associated with suite subscription.
- ****Power BI Desktop:**** Free standalone tool costs may be associated with Power BI Service for certain features.

6. List 20 data sources supported by Power BI desktop.

ANS.

1. Excel
2. CSV
3. Text/CSV files
4. SQL Server Database
5. Azure SQL Database
6. Azure SQL Data Warehouse
7. Oracle Database
8. Access Database
9. SharePoint Online List
10. Web (HTML tables)
11. JSON
12. OData Feed
13. Folder
14. Power BI Dataflows
15. Hadoop File (HDFS)
16. PDF
17. Dynamics 365
18. Google Analytics
19. Salesforce Objects
20. Apache Spark