

Q1. Explain the advantages of Natural Queries in Power Bi with an example?

Ans.= Natural queries helps to discover business insights. It also helps to convert the unstructured data in structured data. It also helps in easier access of the data to the required user.

Ex - we can import data from various data sources using database query.

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

Ans.= WFE Cluster is useful for the authentication process which authenticates customers and also provide tokens for customer links. It manages the original Power BI link.

Q3. Explain Back End cluster from Power BI Service Architecture?

Ans.= The customer interact with Power Bi service is through Back End Cluster. The Back End cluster manages visualization, user dashboards, datasets, reports, data storage, information links and other elements of Power BI service.

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

Ans.= The ASP.NET component is Power Bi service architecture responsible to parse the token and also decide that which organisation the user belongs to. After that, it consults the Power BI service.

Q5. Compare Microsoft Excel and PowerBi Desktop on the following features:

Data import

Data transformation

Modelling

Reporting

Server Deployment

Convert Models

Cost

Ans.= **Data Import** – Power Bi can import data from large number of data sources whereas Excel importing capability is less compared to Power Bi.

Data Transformation - Data Transformation is done in Power BI to perform business intelligence operations and visualization whereas in Excel Data Transformation is done to perform mathematical operations and calculations.

Modelling - Data Modelling in Power Bi can be performed on complex data models whereas data modelling in excel is more suitable to perform only on simple and unstructured data. Data model language in Power Bi is DAX whereas of excel is MDX.

Reporting - Very attractive and beautiful reports can be prepared using Power Bi whereas excel can produce simple and less attractive reports compared to Power Bi.

Cost - Microsoft excel is a paid tool whereas Power Bi has free version as well as paid version.

Q6. List 20 data sources supported by Power Bi desktop.

Ans.= 20 data sources supported by Power Bi desktop are:

- 1) excel
- 2)Text/CSV
- 3)XML
- 4)JSON
- 5)Folder
- 6)PDF
- 7)Azure SQL Database
- 8)Google Analytics
- 9)Adobe Analytics
- 10)SharePoint Online List
- 11)Microsoft Exchange Online
- 12)Web
- 13)SharePoint list
- 14)Active Directory
- 15)ODBC
- 16)Python script

17)R script

18)Spark

19)Hadoop File

20)Sharepoint folder