PowerBI Assignment_2 iNeuron

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

Ans:

Benefit 1 – Guided NLQ is a unique self-service BI experience
Benefit 2 – Every question is understood by Guided NLQ
Benefit 3 – Guided NLQ makes it simple to ask complex questions
Benefit 4 – Guided NLQ is integrated throughout Yellowfin
Benefit 5 – It's easy to embed Guided NLQ into your applications.

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

Ans: The Web Front End (WFE) cluster. The WFE cluster manages the initial connection and authentication to the Power BI service. The Back-End cluster. Once authenticated, the Back-End handles all subsequent user interactions. Power BI uses Azure Active Directory (Azure AD) to store and manage user identities.

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. The Back-End cluster manages visualizations, user dashboards, datasets, reports, data storage, data connections, data refresh, and other aspects of interacting with the Power BI service.

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

Ans: A WFE cluster consists of an ASP.NET website running in the Azure App Service Environment. When users attempt to connect to the Power BI.

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

Ans:

1) Data Import: Power BI can connect to a large number of data sources, while Excel's connectivity capacity is limited.
2) Data Transformation: Excel is used to organize data, transform it and perform mathematical operations and calculations. On the other hand, Power BI was conceived as a business intelligence and data visualization tool for businesses.
3) Data Modeling: Excel is totally focused of structured and simple data models with wide range of features. Power BI is really focused on data ingest and building potentially complex data models easily.
4) Data Reporting: In Excel Reports available is limited to specific users. & in Powre BI Reports available to a broad range of readers with varying degrees of tech-savvy.
5) Convert Models: Compared to Power BI, using Power Pivot in Excel isn't as intuitive and easy. Of course, once you get a hang of it, it'll be easier. But against Power BI's interface, Excel's Power Pivot falls a little bit flat. In Power BI, changing from reports to dashboards to datasets is easy.

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

Ans:

- SQL Server database
- Access database
- SQL Server Analysis Services database
- Oracle database
- IBM Db2 database
- IBM Informix database (Beta)
- IBM Netezza
- MySQL database
- PostgreSQL database
- Sybase database
- Teradata database
- SAP HANA database
- SAP Business Warehouse Application Server
- SAP Business Warehouse Message Server
- Amazon Redshift
- Impala
- Google BigQuery
- Vertica
- Snowflake
- Essbase
- Actian (Beta)
- Amazon Athena
- AtScale cubes
- BI Connector
- Data Virtuality LDW
- Denodo
- Dremio Software
- Dremio Cloud (Beta)
- Exasol
- Indexima
- InterSystems IRIS (Beta)
- Jethro (Beta)
- Kyligence
- Linkar PICK Style / MultiValue Databases (Beta)
- MariaDB
- MarkLogic
- TIBCO(R) Data Virtualization