Power BI Assignment 3

1. Explain the advantages of Natural Queries in PowerBi with an example?
   Ans. The Q&A feature in Power BI lets you explore your data in your own words using natural language. Q&A is interactive, even fun

2. Explain Web Front End(WFE) cluster from Power BI Service Architecture?
   Ans. The Power BI service architecture is based on two clusters – the Web Front End (WFE) cluster and the Back-End cluster. The WFE cluster manages the initial connection and authentication to the Power BI service, and once authenticated, the Back-End handles all subsequent user interactions

3. Explain Back End cluster from Power BI Service Architecture?
   Ans. The Back-End cluster is 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. The ASP.NET component within the WFE cluster parses the token to determine which organization the user belongs to, and then consults the Power BI Global Service. The WFE specifies to the browser which back-end cluster houses the organization's tenant

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

Data import
Data transformation
Modeling
Reporting
Server Deployment
Convert Models
Cost

Ans. Power BI has faster processing than Excel. Power BI dashboards are more visually appealing, interactive and customizable than those in Excel. Power BI is a more powerful tool than Excel in terms of comparison between tables, reports or data files. Power BI is more user friendly and easy to use than Excel.

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

   Ans. The data sources supported by Power Bi Desktop :

- 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
- 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
- AtScale cubes