**Power BI Assignment 2**

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

* NLQ is a unique self-service BI Experience.
* Every question is understood by guided NLQ
* NLQ makes it simple to ask complex questions.
* It’s easy embed NLQ into your applications.

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

* The Web Front End cluster manages the original Power BI link and authentication process using AAD to authenticate customers and provide tokens for subsequent Power BI customer links.

**Explain Back End cluster from Power BI Service Architecture?**

* Authenticated customers interact with the Power Bi service is the Back-End cluster. The Back-End cluster manages visualization, user dashboards, datasets, reports, data storage, information links, information refresh, and other elements of Power Bi service interaction.

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

* 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.

**Compare Microsoft Excel and PowerBi Desktop on the following features:**

Excel Power Bi

|  |  |  |
| --- | --- | --- |
| Data Import | Power bi has 160+ sources data sources to import | Excel has only 2 or 3 data type sources. |
| Data Transformation | a) Power BI can connect to many data sources. | Excel connectivity capacity is limited. |
| Modelling | Power BI has faster processing than excel. | Excel is not that much interactive and customizable than power bi. |
| Reporting | Simpler and less attractive reports than those of Power Bi | More beautiful, personalized, attractive and interactive charts. |
| Server Deployment | - | Power BI |
| Convert Models |  |  |
| Cost | Payment tool | It has a free version and a payment version |

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

* MS-Excel Workbook
* Text/CSV
* XML
* JSON
* Sql Server Database
* Access Database
* Oracle Database
* Mysql Database
* PostgreSQL Database
* Google Big Query
* Snowflake
* Azure Sql Database
* Power BI Datasets
* Google Analytics
* Adobe Analytics
* Github
* Linkdin Sales Navigator
* Spark
* RScript
* Python Script