**Power BI Assignment 2**

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

Ans : 1 – Guided NLQ is a unique self-service BI experience

2 – Every question is understood by Guided NLQ

3 – Guided NLQ makes it simple to ask complex questions

4 – Guided NLQ is integrated throughout Yellowfin

5 – It’s easy to embed Guided NLQ into your applications

1. 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

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

Ans: Back End Cluster: It manages the datasets, reports, storage, visualizations, data refreshing, data connections, and other services in the Power BI. At the back end cluster, the web client has only two direct points to interact with the data, i.e., Gateway Role and Azure API Management.

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

Ans: ASP.NET is a free web framework for building great websites and web applications using HTML, CSS, and JavaScript. You can also create Web APIs and use real-time technologies like Web Sockets.

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

Data import

Data transformation

Modeling

Reporting

Server Deployment

Convert Models

Cost

Ans: Excel does have some of the newer charts now, they can’t connect to the data model. Power BI is ideal for Dashboards, alerts, KPIs, and visualizations, including analyzing your data visually.

Excel reports are normal and ordinary comparing Power BI. Power BI offers Beautiful branded reports comparing Excel.

Excel is totally focused on structured and simple data models with a wide range of features. Power BI is really focused on data ingest and building potentially complex data models easily.

1. 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

MySQL database

PostgreSQL database

Sybase database

Teradata database

SAP HANA database

Amazon Redshift

Impala

Google BigQuery

Google BigQuery (Azure AD)(Beta)

Vertica

Snowflake

Essbase

Actian (Beta)

Amazon Athena

AtScale cubes

BI Connector

Data Virtuality LDW

Denodo

Dremio Software

Dremio Cloud (Beta)