**Power BI Assignment 2**

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

- The Q&A feature in Power BI lets you quickly get answers about your data by using natural language to ask questions about the data. Power BI Q&A is free and available to all users. In Power BI Desktop, report designers can use Q&A to explore data and create visualizations. In the Power BI service, everyone can explore their data with Q&A. Our mobile apps support Q&A too

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

- 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.

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

- 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.

1. 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.

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

Data import

Data transformation

Modeling

Reporting

Server Deployment

Convert Models

Cost

- Data import – We can import data from multiple sources In power bi where as for excel the options are limited.

Modelling – excel has ability to work on simole and structured data models where as power bi is ideal for building complex data models easily.

Reporting - In excel reports are simple and less attractive than those of power bi where as power bi reports are more beautiful , attractive , personalized and interactive

Cost – power bi Dekstop is free to download and use for personal use, But it takes 10$ per month per user to share reports with others. Where aa Microsoft excel is free

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

- 1 JSON

2 XML

3 PDF

4 SQL Server database

5 MySQL data base

6 Azure SQL Database

7 Impala

8 Oracle database

9 IBM Db2 database

10 Access database

11 Share Point Online List

12 Google Analytics

13 GitHub

14 Adobe Analytics

15 Google Analytics

16 Smartsheet

17 QuickBooks Online

18 Common data service (legacy)

19 Hadoop File (HDFS)

20 Excel