Power BI Assignment 2

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

ANS: The Q&A feature in Power BI lets you explore your data in your own words by using natural language. Q&A is interactive, even fun. Often, one question leads to others as the visualizations reveal interesting paths to pursue. Asking the question is just the beginning. Travel through your data, refining or expanding your question, uncovering new information, zeroing in on details, or zooming out for a broader view. The experience is interactive and fast, powered by an in-memory storage.

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

ANS: The **WFE** cluster manages the initial connection and authentication to the Power BI service.

The WFE cluster uses Azure AD to authenticate clients, and provide tokens for subsequent client connections to the Power BI service. Power BI uses the Azure Traffic Manager (Traffic Manager) to direct user traffic to the nearest data center. Traffic Manager directs requests using the DNS record of the client attempting to connect, authenticate, and to download static content and files. Power BI uses the Azure Content Delivery Network (CDN) to efficiently distribute the necessary static content and files to users based on geographical locale.

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

ANS: The **Back-End** cluster, once authenticated, the **Back-End** handles all subsequent user interactions.

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: Web Front End Cluster.

The front end services are used for establishing an initial connection and authenticating clients using Azure Active Directory. The Azure Active Directory stores user identities.

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

	MS EXCEL	POWER BI
Data import	click the Data tab on the ribbon and use the Get data drop-down menu to select one of the available choices.	click on Get data > Get data from another source . Simply select the platform you wish to import data from, and click Connect . Sign in with your credentials (wherever required) to extract data from an external source
Data	Microsoft Excel cannot handle Big	Power BI handles Big Data
transformation	Data.	
Modeling	MDX (Multidimensional	Power BI is based on a
	Expressions) language, which is	functional language called
	used to query and manipulate	DAX, which stands for Data
	multidimensional databases.	Analysis Expressions.
Reporting	Reports are simpler and less	More visually appealing,
	appealing than those in Power	customized, appealing, and
	BI.	interactive reporting.
Server	Microsoft Excel can connect to	Power BI can connect with
Deployment	limited sources.	different varieties of sources
Convert	Works with simple and structured	Ideal for quickly creating
Models	data models.	complex data models.
Cost	Payment Tool	It has a free version and a payment version.

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

ANS:

- Web
- SharePoint list
- OData Feed
- Active Directory
- Microsoft Exchange
- Hadoop File (HDFS)
- Spark
- Hive LLAP
- R script
- Python script
- ODBC
- OLE DB
- Acterys: Model Automation & Planning (Beta)
- Amazon OpenSearch Service (Beta)
- Anaplan
- Solver
- BitSight Security Ratings
- BQE Core
- Bloomberg Data and Analytics
- Celonis EMS (Beta)
- Cherwell (Beta)
- CloudBluePSA (Beta)
- Cognite Data Fusion
- Delta Sharing
- Eduframe (Beta)
- EQuIS (Beta)
- FactSet RMS (Beta)
- FHIR
- Google Sheets