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Assignment-2.

Q1. Explain the Advantage of Natural Queries in Power BI with an Example ?

Ans:- The Q & A feature in PowerBI is Natural Queries.

→ Q & A is interactive, Even from. often, one questions leads to other as the visualization reveal interesting path to pursue. Asking the Question is the just the beginning Travel through your data, refining or Expanding your question, uncovering new info., zeroing in on details etc.

Eg:- Ask natural Question which sales has the highest revenue.

Q2. Explain Web Front End (WFE) cluster from PowerBI Service Architecture ?

Ans:- The WFE cluster manages the initial connection and authentication to PowerBI Service.

The WFE cluster uses Azure AD to authenticate clients, and Provide tokens for subsequent client connection to the PowerBI service.

PowerBI uses the Azure traffic Manager to direct user traffic to the nearest datacenter.

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Q3. Explain Back End cluster from power BI Service Architecture

Ans: The Back-End cluster determines how authenticated client interact with power BI services. The Back-End cluster manages visualization, user dashboard, datasets, report, data storage, data connections, data refresh, and other aspects of interacting with the power BI service.

The Gateway Role acts as a gateway b/w user request and power BI service. user directly interact with any roles other than the Gateway role.

Gateway Role. Azure API Management eventually handles this role.

Q4. What ASP.NET Components does in power bi service architecture

Ans: A WFF cluster consists of an ASP.NET website running in the Azure app service environment. When user attempt to connect the power BI service, the client DNS service may communicate with the azure traffic manager to find the most appropriate datacenter with a power BI deployment.

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Q5 Compare Microsoft Excel & Power BI Desktop on the following features:-

1) Cost:- • Power BI Desktop is free to download and uses for personal use, but it takes $ 10 per month user to share reports

• Since we already have Excel, we no need to spend additional money to procure this and build dashboard

2) Data:- • Power BI can handle large amount of data with the power pivot engine model.

• Excel are not able to handle large amount of data.

3) Reporting:- • Power BI not only has slicer but also has a variety of other selicer. Cross filters, report level filters, drill through filters, visual level filters

• Excel has slicers to make the dashboard interactive.

4) Modeling:- • In power BI modeling can be done easily in model view.

• Excel have different tabs in which we done modeling.

5) Transformation:- • In power BI, for transformation of data we have seprate tab that is power Query Editor.

• Excel doesn't have any specific tab for data transformation.

6) Server deployment :- • Power BI Service support so many things to deploy on web page.

• Excel do not provide functionality of wide range.

7) Converts model ⇒ • In Power BI we can convert Relationship b/w the model that is so easy.

• Excel provide this model convert functionality. In excel we do manually data modeling

Q6. List 20 data source supported by Power Bi desktop.

Ans:- 1) Excel 2) CSV 3) text
4) XML 5) JSON 6) PDF
7) Folder 8) Sharepoint folder
9) parquet , 10) SQL Server database
11) Access database 12) Oracle database
13) IBM Db2 database
14) IBM Netezza
15) Snowflake
16) Azure
17) Google cloud
18) amazon S3 bucket
19) MySQL database
20) Web.