

Powerbi Assignment 2

Q1 Explain the advantages of natural Queries in PowerPi with an Examples?

- Sometime the fastest way to get an answer from your data is to perform a search over data using natural language. The Q/A feature in power bi lets you explore your data in your own words using natural language.
- * Q/A feature in powerbi lets you quickly get answers about your data by using natural language to ask about the data.
- * Enabling Q/A builds an index, to quickly provide real time feedback to the users to help interpret their questions.
- * The natural Queries is an advance feature that can find almost any insight. It continues being improved and one day it will be implemented in other apps.
- * For Example power bi gives us ability to write our question in English language. You could simply write.

1) Country and Sales and powerbi will give you graph

2) Sales by country and year.

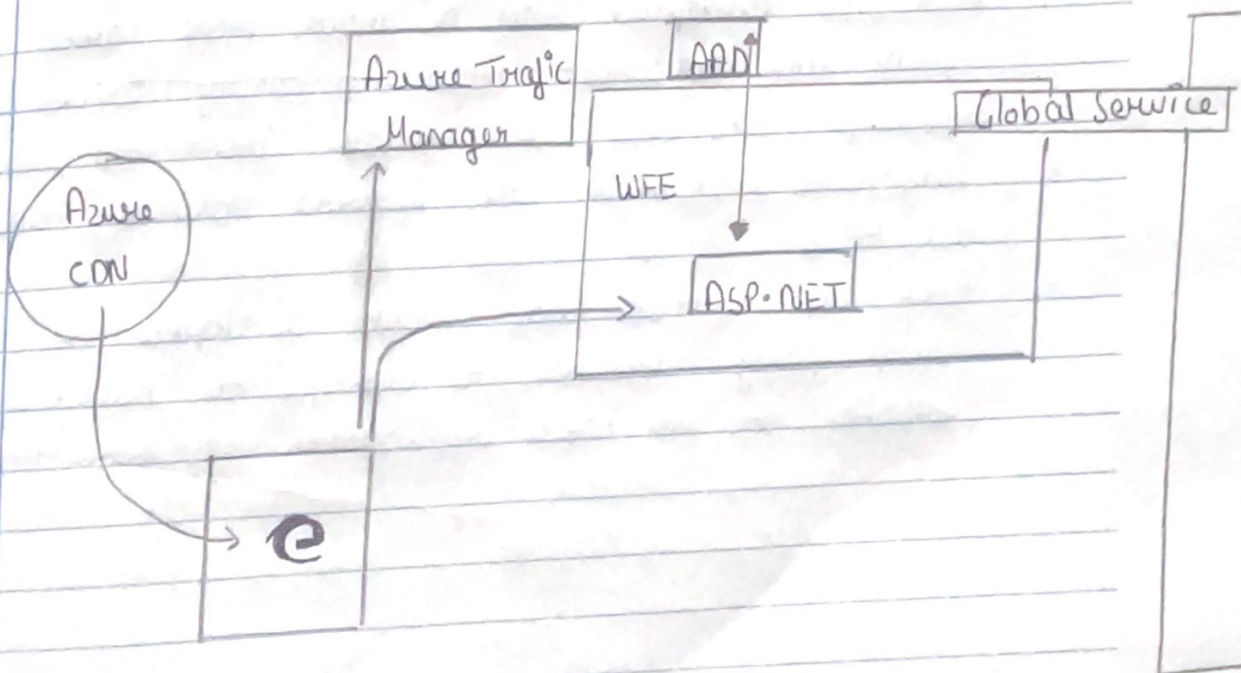
Q2) Explain Web Front End (WFE) cluster from powerbi Services Architecture?

→ The WFE cluster manages the initial connection and authentication to powerbi services.

* The back end The WFE cluster uses Azure AD to authenticate clients, and provide token for subsequent client connection to powerbi services.

* Power bi uses the azure Content Delivery network to efficiently distribute the necessary static content and files to user based on locale.

* Web Front End Architecture



Q3) Explain Back End cluster from power bi Service Architecture.

- The back-end cluster determines how authenticated clients interact with power bi service.
- * The back-end manages visualisation, user dashboard dataset reports data storage data connection and other aspects of interacting with power Bi services.
- * The back end is a code that runs on the server, that receive requests from the clients, and contains the logic to send the appropriate data back to client. The back end also includes database which store all the data for the application.
- Back end tools and technologies.
Back end development can be much more varied than front end development, which is largely driven by Javascript HTML CSS and various front End frameworks
- * Components in backends are :- Servers, Database, Middleware and APIs.
- * Back end services also allows developers to use third party suppliers to develop the back end of website or web based Applications.

Q4]. What.
~~Write~~ ASP.Net components does in power bi Service Architecture?

→ ASP.NET is web development platform which provides a programming model a comprehensive software and various services required to build up robust web applications for PC, as well as mobile devices.

* ASP.NET works on the top of HTTP protocol, and uses the HTTP commands and policies to set a browser to communication and cooperation.

* ASP.NET applications versus the challenge of doing same thing but power bi report server Report.

5) Compare Microsoft excel and powerbi Desktop in following feature

Data Import	Power bi can fetch data from everywhere, It has it own power Query. With powerbi we can handle millions of rows together with fast speed.	Excel can get data from everywhere with Power Query. Excel is frustrating to handle large amount of data.
Data transformation	Powerbi can connect to large amount of data sources and has faster processing.	Excel is not designed to work with big data and has a more adjusted amount of data.
Modelling	PowerBi is really focused on data ingest and building potentially complex data models easily.	Excel is totally focused on structured and simple data modeling with wide range of features.
Reporting	Powerbi has more beautiful personalised attractive and interactive reports.	Excel has simpler and less attractive reports than those of power bi.
Server Deployment.	In Powerbi deployment process lets you clone contents from one stage in pipeline to another.	In excel you make a final excel workbook to end user by deploying the fusion web application in application server.

Cost

Power bi desktop is free to download and use for personal use, but it takes \$10 per month per user to share reports.

Since we already have Excel, we need to spend additional money to purchase this and build dashboard.

Q6] → List 20 data sources supported by Power BI desktop.
With powerbi desktop, you can connect to data from many sources.

* Data sources supported by powerbi are

- 1) SQL Server database
- 2) Oracle database
- 3) Access database
- 4) Sybase database
- 5) Teradata database
- 6) Amazon Redshift
- 7) Denodo
- 8) Exasol
- 9) Essbase
- 10) Snowflake
- 11) Impala
- 12) Sap HANA database
- 13) Maria DB
- 14) Tethys
- 15) Hawk Logic
- 16) Qlikview
- 17) BI Connector
- 18) Vertica
- 19) Google Big Query
- 20) IBM Db2 database