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# Power BI Assignment 2

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

Power BI's use of natural language queries also prevents the need for users to learn a complex query language. Collectively, a range of functionality that enhances your ability for self-service.

The Natural Language Query is an advanced feature that can find almost any insight. It's continually being improved.

The Q&A feature in Power BI lets you explore your data in your own words using natural language

Fast and Increased efficiency

**Example -Ask natural questions** Which sales has the highest revenue?

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

The front end also called the web front-end cluster acts as an intermediary between clients and the back end. The front end services are used for establishing an initial connection and authenticating clients using Azure Active Directory.

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

Back end take care of visualizations, datasets, storage, reports, data connections, data refreshing, and other interactions with power BI. at the back-end, a web client has only two direct points of interaction, Azure API management, and gateway Role. these two components are responsible for load balancing, authentication, authorization, routing, etc

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

There are multiple options to embed power BI reports using ASP.NET Core. IFrame solution was simple and straightforward – just copy markup from power BI portal, paste it to ASP.NET Core view and you are done. with C# and JavaScript our solution was more complex and we had to write more code. Still we were able to make report available for all authenticated users in application that doesn't use Azure AD.

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

Points	Power BI	Excel
<b>Visuals</b>	Power BI has a wide variety of visualizations. We can import many other visuals from the marketplace besides available built-in charts.	Excel has only a few built-in charts, and we need to work with only those charts to build dashboards.
<b>Chart Customization</b>	Power BI does not have the luxury of customizing a chart to the full extent. Therefore, if you are working with one set of charts, you can only work with that chart.	Excel is special. We can create another set of charts only using built-in charts. For example, a thermometer chart.
<b>Cross Filtering</b>	Have cross filtering between charts	Does not have cross filtering between charts
<b>Analytics</b>	Have high level analytics	Offers simple analytics compared with BI
<b>Report Availability</b>	Reports available to a broad range of readers with varying degree of tech savy	Reports available to limited specific users
<b>Duplicate table</b>	Cannot show duplicate table	Show duplicate table also

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

- 1.Excel
  - 2.Text/CSV
  - 3.XML
  - 4.JSON
  - 5.Pdf
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- 6.Parquet
  - 7.Sharepoint folder
  - 8.Sql server database
  - 9.Access database
  - 10.Oracle database
  - 11.SAP Hana
  - 12.Teradata database
  - 13.Mysql database
  - 14.IBM netezza
  - 15.IBM DB2 Database
  - 16.Amazon Redshift
  - 17.Sybase database
  - 18.PostgreSql database
  - 19.IBM Informix database
  - 20.Imphala

