**Power BI Assignment 2**

1. Explain the advantages of Natural Queries in PowerBi with an example?
2. Explain Web Front End(WFE) cluster from Power BI Service Architecture?
3. Explain Back End cluster from Power BI Service Architecture?
4. What ASP.NET component does in Power BI Service Architecture?
5. Compare Microsoft Excel and PowerBi Desktop on the following features:

Data import

Data transformation

Modeling

Reporting

Server Deployment

Convert Models

Cost

1. List 20 data sources supported by Power Bi desktop.
2. Explain the advantages of Natural Queries in PowerBi with an example?

Answer- [Benefit #1 – Guided NLQ is a unique self-service BI experience](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Benefit_1_-_Guided_NLQ_is_a_unique_self-service_BI_experience)

[Benefit #2 – Every question is understood by Guided NLQ](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Benefit_2_-_Every_question_is_understood_by_Guided_NLQ)

[Benefit #3 – Guided NLQ makes it simple to ask complex questions](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Benefit_3_-_Guided_NLQ_makes_it_simple_to_ask_complex_questions)

[Benefit #4 – Guided NLQ is integrated throughout Yellowfin](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Benefit_4_-_Guided_NLQ_is_integrated_throughout_Yellowfin)

[Benefit #5 – It’s easy to embed Guided NLQ into your applications](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Benefit_5_-_Its_easy_to_embed_Guided_NLQ_into_your_applications)

[Why Guided NLQ is a differentiated, future-proof solution](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Why_Guided_NLQ_is_a_differentiated_future-proof_solution)

* + [See more: Guided NLQ in action](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#See_more_Guided_NLQ_in_action)
  + [You may also like:](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#You_may_also_like)
  + [Yellowfin Launches Certified CData Connectors](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Yellowfin_Launches_Certified_CData_Connectors)
  + [What is Data Governance? Accountability and Quality Control in Analytics](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#What_is_Data_Governance_Accountability_and_Quality_Control_in_Analytics)
  + [How Guided NLQ unlocks true self-service analytics for everyone](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#How_Guided_NLQ_unlocks_true_self-service_analytics_for_everyone)
  + [November 2022 Yellowfin User Group Event Recap](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#November_2022_Yellowfin_User_Group_Event_Recap)
  + [Create Beautiful Business Insights With Yellowfin Using Data from APILayer](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#Create_Beautiful_Business_Insights_With_Yellowfin_Using_Data_from_APILayer)
  + [What is Data Security? – The Role of Analytics in Data Protection](https://www.yellowfinbi.com/blog/natural-language-query-5-benefits-of-guided-nlq#What_is_Data_Security_-_The_Role_of_Analytics_in_Data_Protection)

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

Answer- The Web Front End (WFE) cluster. The WFE cluster manages the initial connection and authentication to the Power BI service. The Back-End cluster. Once authenticated, the Back-End handles all subsequent user interactions. Power BI uses Azure Active Directory (Azure AD) to store and manage user identities

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

Answer- Back End Cluster: It manages the datasets, reports, storage, visualizations, data refreshing, data connections, and other services in the Power BI. At the back end cluster, the web client has only two direct points to interact with the data, i.e., Gateway Role and Azure API Management

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

Answer- In order to learn technology, you must be handy with its architecture. If you are not aware of the architecture of the technology, you won’t be able to become a master of it. Under this Power BI architecture tutorial by DataFlair, we’re going to learn from the basics then we will gradually move upwards, learn about its components and how it works. We’ll also understand how does the front end and back end of Power BI work to provide all its unique functionalities and features for data analysis.

Let’s start and have a thorough understanding of the concept.

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

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Answer- Download our e-book with the 15 best Power BI dashboards! Thus, Excel and Power BI have many similarities: both can access data in different formats and convert them into visual information. Also, both Excel and Power BI are updated regularly and include improvements and new possibilities in each new version.

1. List 20 data sources supported by Power Bi desktop

Answer- SQL Server database

* Access database
* SQL Server Analysis Services database
* Oracle database
* IBM Db2 database
* IBM Informix database (Beta)
* IBM Netezza
* MySQL database
* PostgreSQL database
* Sybase database
* Teradata database
* SAP HANA database
* SAP Business Warehouse Application Server
* SAP Business Warehouse Message Server
* Amazon Redshift
* Impala
* Google BigQuery
* Google BigQuery (Azure AD)(Beta)
* Vertica
* Snowflake
* BI Connector
* Data Virtuality LDW