

ASSIGNMENT : 2

Q1 Advantage of Natural Queries in Power BI with an example?

Ans A natural language query is input that consists solely of terms or phrases spoken normally or entered as they might be spoken without any non-language character, such as the plus symbol etc. without any special format or alteration of syntax.

⇒ A straightforward example of a natural language search would be "How tall is the tallest building in asia?"

You express the search request as you would when talking to another person.

* Advantages : —

i) You can go back at any time to rearrange the question

ii) Change your data view to find more answers from other datasets

iii) Save your question for later.

iv) Add the answers to existing content in Yellowfin, such as dashboards, stories or presentations.

Q2. Explain WFE (Web Front End) Cluster uses azure AD to authenticate clients

tokens for subsequent client connection to the Power BI Service. Power BI uses the Azure Traffic Manager to direct user traffic to the nearest datacenter. The Azure Content Delivery Network (CDN) makes Power BI content and files available to users when a client or user has an authorized.

Q3. Explain Back End Cluster from Power BI Service architecture?

Ans. Visualizations, datasets, storage, reports, data connections, data updating and other Power BI interactions are handled by the Power BI Service on the back end. A web client can only directly interface with Azure AD Management and Gateway Role on the back end. These two parts are in charge of routing, load balancing, authentication and authorization.

Q4. What ASP.NET Component does in Power BI Service Architecture?

Ans. Integration with Power BI is easy to set up. We need reference to Microsoft Power BI API NuGet package and some coding to get reports integrated to our application. But first we need report.

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Q5. Compare Microsoft Excel and Power BI desktop on the following features : —

i) Data import : — Power BI can connect to a large no. of data sources while Excel's Connectivity Capacity is limited. Also unlike excel, Power BI can be easily used from mobile devices. Power BI has faster processing than excel. Power BI dashboards are more visually appealing, interactive than those in excel.

ii) Cost : — Power BI Desktop is free to download and use for personal use, but it takes \$6 per month user to share reports with others.

Since we already have excel, we need to spend additional money to procure this and build dashboards.

Q6

List 20 data sources supported by Power BI desktop

Ans

- i) SQL Server database
- ii) Azure Databricks
- iii) Excel
- iv) JSON
- v) Microsoft
- vi) My SQL database
- vii) Oracle database
- viii) OData
- ix) PDF
- x) PostgreSQL database
- xi) Online Services
- xii) Amazon Redshift
- xiii) XML
- xiv) Folder