**Explain the advantages of Natural Queries in power bi with an example?**

Advantages of natural queries:

It helps you to ask questions to the data and it will give you the answer in a good visual.

It helps you to train the data so that any non-technical person can ask question and find the answer from the data.

Let suppose if you have data of sales of some company using natural query Q&A you can just type sales by country and you will get an readymade chart.

**Explain the web front end cluster from Power BI service Architecture?**

The Web Front End cluster manages the initial connection between the back end cluster and the clients. It uses AAD (Azure Active Directory) to authenticate clients. Moreover, it provides various tokens for connecting clients to the Power BI service.

**Explain the backend cluster from power bi service architecture?**

The Back End Cluster is useful to maintain various reports, storage, data sets, and other services under Power BI. In the BEC, the client has only two points to interact directly with the information or data. These are the Gateway Role and Azure API Management. Moreover, these components are useful for various services like load balancing, authentication, and routing, etc.

**What ASP.NET component does in Power bi service architecture?**

The ASP.NET component within the WFE cluster parses the token to determine which organization the user belongs to, and then consults the Power BI Global Service. The WFE specifies to the browser which back-end cluster houses the organization's tenant.

**Difference between Microsoft Excel and Power BI**

|  |  |  |
| --- | --- | --- |
|  | **Microsoft Excel** | **Power BI** |
| **Data import** | Can’t import every type of file | Easily import different kind of files |
| **Data transformation** | Is slow and not all type of transformation is possible | Data transformation is every easy. |
| **Modelling** | Structured and simple models | Complex models made easily |
| **Reporting** | Reporting is normal | Reporting is interactive and dynamic |
| **Server Deployment** | Hard | Easy |
| **Convert Models** | Difficult | Easy |
| **Cost** | Is cheaper then power bi | Compare to excel it is costly. |

List 20 data sources supported by Power Bi desktop.

|  |  |
| --- | --- |
| Actian, ActiveDirectory, Adobe Analytics, Amazon redshift, Anaplan, appfigures, assembleviews, Atscale cubes, Autonomy Data analytics, Azure analysis services, Azure Blob Storage, Azure cosmos DB, Azure cost management, Azure databrick, Azure devops, Azure devops server, Azure HDinsight, Azure HDinsight Spark, Azure sql database, Azure Synapse, Azure table storage | |
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