**Power BI Assignment 2**

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

:- Natural language search is incredibly useful as it's intuitive, easy to use, and can understand complex queries better than keyword-based searches. With natural language search, the user only needs to know what they want, and your search engine will find it.

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

:- The WFE cluster uses Azure AD to authenticate clients, and provide tokens for subsequent client connections to the Power BI service. Power BI uses the Azure Traffic Manager (Traffic Manager) to direct user traffic to the nearest datacenter.

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

:- The back-end cluster manages datasets, storage, reports, visualizations, data connections, data refreshing, and other services in Power BI. At the cluster, web clients have only two points to interact with the information, i.e., Azure API Management and Gateway Role.

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

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

Data import

Data transformation

Modeling

Reporting

Server Deployment

Convert Models

Cost

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| --- | --- |
| Microsoft excel | Power Bi |
| 1. Data import- Click the Data tab on the Ribbon.. 2. Click the Get Data button. Some data sources may require special security access, and the connection process can often be very complex. ... 3. Select From File. 4. Select From Text/CSV. ... 5. Select the file you want to import. 6. Click Import. ... 7. Verify the preview looks correct. ... 8. Click Load. | 1. Data import- In Power BI, click Get Data in the lower left screen. 2. Under Import or Connect to Data > Files, click Get. 3. Click Local File. 4. Choose which file to upload and click Open. 5. Click Upload under Upload your Excel file to Power BI. |
| Data transformation:- Step 1: Open up Excel and click on the “Data” tab in the ribbon. Step 2: Click on the “Get Data” button in the “Get & Transform Data” group. Step 3: Choose the data source you want to connect to, such as an Excel workbook, a database, or a web page. Step 4: Click the “Transform Data” button to open Power Query Editor. | 1. Data transformation:- Step 1: Select the column and “Right Click” on the column header. 2. Step 2: This prompts a drop-down list from which you can select “Change Type”. 3. Step 3: When you select it, a drop-down list appears with a list of different data types to choose from. |
| 1. Modelling:- Go to **Power Pivot** > **Manage**. 2. On the **Home** tab, select **Diagram View**. 3. All of your imported tables will be displayed, and you might want to take some time to resize them depending on how many fields each one has. 4. Next, drag the primary key field from one table to the next. The following example is the Diagram View of our student tables: Power Query Data Model Relationship Diagram View We've created the following links: ... | 1. Modelling:- Step 1: Select the column and “Right Click” on the column header. 2. Step 2: This prompts a drop-down list from which you can select “Change Type”. 3. Step 3: When you select it, a drop-down list appears with a list of different data types to choose from. |
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1. List 20 data sources supported by Power Bi desktop.

* :- 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
* Essbase
* Actian (Beta)
* Amazon Athena
* AtScale cubes
* BI Connector
* Data Virtuality LDW