Assignment 2

Q(1) Explain the advantages of Natural Queries in Power BI with an example?

Ans(1) Natural Query. It's a feature within the Power BI online Service and embedded in the Power BI desktop as well You can find insight that might not exist in your report but exist in your model on the measures you've already created It's important to build your model for instance like this.

Q(2) Explain Web front End (WFE) cluster from Power BI Service Architecture?

Ans(2) 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 authentication the Back End handles all subsequent user interations.

Q(3) Explain Back End cluster from Power BI Service Architecture?

Ans(3) The Back-End cluster determines how authenticated clients interact with the Power BI service. The Back-End cluster manages visualizations, user dashboards, datasets, reports, data storage, data connections, data refresh, and other aspects of interacting the Power BI service

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

Ans(4) In Power BI Service architecture. ASP.NET components play a crucial role in providing the web-based user interface and handling server-side functionality. Here's a breakdown of their role.

1. Web Frontend.
2. Authentication and Authorization
3. Server-Side logic
4. Integration
5. Communication with Power Bi Service

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06 Compare Microsoft Excel and Power Bi Desktop on the following features

Data Import

Microsoft Excel	Power Bi Desktop
① Microsoft Excel allows you to import data from various sources, including databases, web queries	Power Bi Desktop is designed specifically for data analysis, and it excels at data import

Data Transformation

Microsoft Excel	Power Bi Desktop
Microsoft Excel supports basic transformation features through formulas, pivot tables, and Power Query. It's suitable for simple transformations	Power Bi Desktop shines in data transformation. It has a robust Power Query Editor that allows for advanced data shaping and transformation steps

Modeling

Microsoft Excel supports data modelling using Pivot tables and Pivot charts. It's suitable for simple data modeling tasks

Power BI Desktop is built for advanced data modeling. It allows you to create relationship between tables

Reporting

Microsoft Excel is primarily a spreadsheet tool but can be used for creating static reports

Power BI Desktop is designed for interactive reporting and dashboard creation. It offers features like drill through, slicers, bookmarks

Server Deployment

Power

Microsoft Excel workbook can be shared via email or cloud storage but there's no centralized server

Power Bi desktop reports can be published to the Power Bi Service allowing for centralized access

Current Models

Microsoft Excel workbook can't be directly converted into Power Bi models

Power Bi Desktop files can be published to the Power Bi Service

Cost

Microsoft Excel is typically included in the Microsoft Office suits which is a paid product

Power Bi Desktop is free to download and use for creating reports

(16) list 20 data sources supported by Power Bi desktop

(16) Here are 20 commonly used data sources supported by Power Bi desktop

1. Excel
2. CSV
3. SQL Server Database
4. Azure SQL Database
5. My SQL
6. Oracle Database
7. Postgre SQL
8. Web
9. JSON
10. Share Point Online
11. Web Services
12. OData Feed
13. Hadoop File HDFS
14. Folder
15. Microsoft Access
16. Azure Data Lake Storage
17. PDF
18. Google Analytics
19. Facebook
20. Exchange Online