ASSIGNMENT

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Basic Introduction Questions on Power BI

1. What is Power BI?

Power BI is a business analytics and data visualisation tool developed by Microsoft. It helps individuals and organisations connect to various data sources, transform raw data into actionable insights, and create interactive reports and dashboards.

1. Who developed Power BI?

Power BI was developed by Microsoft. It was originally designed by the SQL Server Reporting Services team and first released to the public in 2011 as “Project Crescent,” before officially being launched as Power BI in 2013.

1. Why do we use Power BI?

We use Power BI because it helps turn raw data into meaningful insights through interactive dashboards, reports, and visualisations. What are the main components of Power BI?

1. What are the main components of Power BI?

**Power BI Desktop** – A Windows application used by analysts to create reports and dashboards.

**Power BI Service (Power BI Online) –** A cloud-based platform where reports and dashboards are published, shared, and accessed.

**Power BI Mobile** – Mobile apps for Android and iOS that allow users to view and interact with reports on the go.

**Power BI Gateway** – A bridge that connects on-premises data sources (like SQL Server, Excel, etc.) to Power BI Service for secure data transfer.

**Power BI Report Server** – An on-premises server where organisations can host and manage their Power BI reports securely.

**Power BI Embedded** – A service that allows developers to embed Power BI reports and dashboards into custom applications.

1. What is Power BI Desktop?

Power BI Desktop is a free Windows application provided by Microsoft, used to create interactive reports and dashboards. It enables users to connect to multiple data sources, clean and transform data, and create visualisations using a simple drag-and-drop interface.

1. What is Power BI Service?

Power BI Service is a cloud-based platform provided by Microsoft where users can publish, share, and access reports and dashboards created in Power BI Desktop. It enables organisations to collaborate by securely sharing insights, setting up workspaces, and managing data in real-time.

1. What is Power BI Mobile?

Power BI Mobile is a mobile application provided by Microsoft that allows users to access and interact with Power BI reports and dashboards on smartphones and tablets. It is available for Android, iOS, and Windows devices, enabling users to stay connected to their business data anytime and anywhere.

1. What is the difference between Power BI Desktop and Power BI Service?

* **Power BI Desktop** is a Windows application that you install on your computer. It is mainly used to create, design, and develop reports and dashboards.
* **Power BI Service** is a cloud-based online platform. It is used to share, publish, and collaborate on reports and dashboards created in Power BI Desktop. It allows you to schedule data refresh, set up permissions, and collaborate with teams.

1. What are the key features of Power BI?

* AI and Machine Learning
* Data Transformation
* Data Modelling
* Interactive Visualisations
* Dashboards and Reports
* Real-Time Data

1. What types of data sources can Power BI connect to?

Power BI can connect to many types of data sources.

* **File-based sources** – Excel, CSV, XML, JSON, PDF, etc.
* **Databases** – SQL Server, Oracle, MySQL, PostgreSQL, Access, and many more.
* **Online services** – SharePoint, Dynamics 365, Salesforce, Google Analytics, Azure services, etc.
* **Cloud platforms** – Azure SQL Database, Azure Data Lake, Amazon Redshift, Snowflake, Big Query, etc.
* **Power Platform sources** – Power Apps, Power Automate, Dataverse.
* **Other sources** – Web data, OData feeds, REST APIs, and custom connectors.

1. What is a visualisation in Power BI?

A visualisation in Power BI is the graphical or visual representation of data, such as charts, graphs, maps, or gauges, that helps users understand and analyse information more easily.