

POWER BI

Reg. No:732721104026

Name : Kavisri P

Department: B.E.CSE

1 What is Power BI?

Power BI is a business analytics service by Microsoft that provides interactive visualizations and business intelligence capabilities with an interface simple enough for end users to create their own reports and dashboards.

2 Why use Power BI?

Power BI is used for its robust data visualization capabilities, seamless integration with other Microsoft services, ability to handle large volumes of data, and user-friendly interface, which enables better decision-making through insightful reports and dashboards.

3 Difference Between Pro and Premium in Power BI?

Power BI Pro is a user-based license that allows collaborative use of dashboards and reports, while Power BI Premium provides capacity-based licensing with enhanced storage and performance features, dedicated capacities, and advanced AI functionalities.

4 What are the Building Blocks of Power BI?

The building blocks of Power BI are visualizations, datasets, reports, dashboards, and tiles. These elements work together to provide a comprehensive data analysis experience.

5 Power BI components and explain in detail.

The main components of Power BI are Power BI Desktop (authoring tool), Power BI Service (online SaaS), Power BI Mobile (mobile apps), and Power BI Gateway (for data connectivity and data refresh).

6 What is Power Query in Power BI?

Power Query is a data connection tool in Power BI that enables users to discover, connect, combine, and refine data across a wide range of sources for analysis.

7 What is a Power BI report?

A Power BI report is a multi-perspective view of a dataset, with visualizations representing different findings and insights from that dataset. Reports can have multiple pages with various visualization types.

8 What are relationships in Power BI?

Relationships in Power BI link tables together based on common columns, enabling the creation of data models that allow analysis across different datasets.

9 What is the difference between a star schema and a snowflake schema?

A star schema is a simple database design with a central fact table linked to dimension tables. A snowflake schema is a more complex design where dimension tables are normalized into multiple related tables.

10 How do you handle many-to-many relationships in Power BI?

Many-to-many relationships in Power BI are handled using bridge tables or by creating a bidirectional filter that allows both tables to filter each other.

11 What are the different ways to connect to data sources in Power BI?

Power BI provides various ways to connect to data sources, such as DirectQuery, Import, Live Connection, and connecting via APIs, files, and databases.

12 What is DirectQuery in Power BI?

DirectQuery allows Power BI to connect directly to a data source without importing the data, enabling real-time data analysis but with some limitations in functionality compared to imported data.

13 What is Cardinality and types of cardinality?

Cardinality defines the relationship between two tables in terms of data uniqueness. The types include one-to-one (1:1), one-to-many (1:M), and many-to-many (M:M).

14 Types of Joins?

Types of joins in Power BI include Inner Join, Left Outer Join, Right Outer Join, Full Outer Join, and Cross Join. Each join type combines data from different tables based on specified conditions.

15 Things to keep in mind while developing a model?

Ensure proper data relationships, use appropriate cardinality, optimize data sources, manage data refresh schedules, and follow best practices for performance and security.