

Q1. what is power BI and why used in businesses ?

-> Power BI is a business analytics service by microsoft that provides interactive visualization and business intelligence capabilities.it allow users to connect to various data sources and create reports and dashboards.

use:

1. Data Consolidation -It brings data different source.(excel, SQL, cloud ).
2. Real - time insights -Businesses can see live updates on their performaqnce.
3. Information decision making - Visual representations make it easier for stakeholders to spot trends and outliers.
4. Accessibility - Reports can be shared securely across the organization via the web or mobile devices.

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Start coding or generate with AI.

Q2. Name and explain the three main components of power BI.

- > 1. Power BI desktop - A free windows application used to connect to transform and model your data to create reports.
2. Power BI services - An online cloud service used to publish reports,create dashboards,and share insights with others.
3. Power BI mobile apps - Applications for ios ,android,and windows devices used to view and interact with reports on the go.

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Q3. Explain the power BI workflow.

-> The standard workflow follows these steps:

1. Connect to data - Bring data into power BI desktop from varioous sources.
2. Transform and model - use power BI query to clean data and create relationships between the tables.
3. Create visuals - Build charts , maps, and graphs to represent the data.
4. Publish - upload the report from desktop to the power BI service.
5. Share - Create dashboards and shere them with team members for collaboration.

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Q4. List any four data cleaning task that can be performed in power query.

- > 1. Removing duplicates - Eliminating identical rows from a dataset.
2. Handling missing values - replacing null values or filtering out empty rows
3. Changing data types - Converting text strings to dates or numbers.
4. Splitting columns - Breaking one column into two based on a delimiter.

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