

Data Analytics Question Bank

MS Excel

Basic Questions

1. What is the use of VLOOKUP in Excel?

****Answer:**** VLOOKUP (Vertical Lookup) searches for a value in the first column of a range and returns a value in the same row from another column.

2. How do you freeze panes in Excel?

****Answer:**** To freeze panes:

- Select the row or column where you want the freeze to start.
- Go to the ****View**** tab and click ****Freeze Panes****.

Advanced Questions

3. What is the difference between Absolute, Relative, and Mixed cell references?

****Answer:****

- ****Relative:**** Changes when copied (e.g., A1).
- ****Absolute:**** Remains constant when copied (e.g., \$A\$1).
- ****Mixed:**** Partly constant, partly relative (e.g., \$A1 or A\$1).

4. Explain the purpose of Pivot Tables.

****Answer:**** Pivot Tables summarize, analyze, and organize data dynamically, allowing you to extract insights like sums, averages, and counts for grouped categories.

Power BI

Basic Questions

1. What is Power BI?

****Answer:**** Power BI is a business analytics tool that provides interactive visualizations and business intelligence capabilities with an interface simple enough for end-users to create their reports and dashboards.

2. What are DAX functions?

****Answer:**** DAX (Data Analysis Expressions) are formulas and functions used in Power BI, Power Pivot, and Analysis Services to perform advanced calculations and data analysis.

Advanced Questions

3. What is a measure vs. a calculated column in Power BI?

****Answer:****

- ****Measure:**** Dynamic calculations based on filters. Example: SUM(Sales[Amount]).
- ****Calculated Column:**** A column with values calculated row by row in a table. Example: Sales[Profit] = Sales[Revenue] - Sales[Cost].

4. Explain the significance of Power Query.

****Answer:**** Power Query is a data connection technology in Power BI used for data preparation, including extracting, transforming, and loading (ETL) data from various sources.

... (Rest of the content continues similarly for Tableau, Python, SQL, and Statistics)