

Data Analyst Interview Questions and Answers

1. What is Data Cleaning?

Data cleaning is the process of detecting and correcting inaccurate, incomplete, or inconsistent data to improve data quality.

2. What is the difference between Primary Key and Foreign Key?

Primary key uniquely identifies each record in a table, whereas a foreign key links two tables together.

3. What is Normalization?

Normalization is the process of organizing data to reduce redundancy and improve data integrity.

4. What is a JOIN in SQL?

JOIN combines rows from two or more tables based on a related column between them.

5. Explain INNER JOIN.

INNER JOIN returns only the matching rows between tables.

6. What is LEFT JOIN?

LEFT JOIN returns all rows from the left table and matching rows from the right table.

7. What is Data Visualization?

Data visualization is presenting data in graphical format to help understand patterns and insights.

8. What is a Pivot Table?

A pivot table summarizes and reorganizes data, usually by aggregating values.

9. What is Correlation?

Correlation measures the relationship between two variables, ranging from -1 to +1.

10. What tools are commonly used by Data Analysts?

Excel, SQL, Python, Power BI, Tableau, Pandas, NumPy.

