8 Steps

MOST ASKED INTERVIEW QUESTIONS FOR DATA ANALYTICS

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SQL

1. What is the difference between INNER JOIN and OUTER JOIN?
2. How do you find duplicate records in a table?
3. What are window functions, and how do they work?
4. Write a SQL query to find the second-highest salary in a table.
5. Explain the difference between WHERE and HAVING clauses.
6. What is the difference between UNION and UNION ALL?
7. How do you optimize a slow SQL query?
8. What is a Common Table Expression (CTE), and when would you use it?
9. How do you handle NULL values in SQL queries?
10. What is the difference between a clustered and non-clustered index?

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POWER BI

1. What are the key components of Power BI?
2. Explain the difference between a calculated column and a measure in Power BI.
3. What are DAX functions, and why are they important?
4. How do you create relationships between tables in Power BI?
5. What is Power Query, and how is it used in Power BI?
6. How would you optimize the performance of a Power BI report?
7. Explain the difference between DirectQuery and Import mode.
8. How do you use bookmarks in Power BI?
9. What are row-level security (RLS) and its implementation in Power BI?
10. How would you handle large datasets in Power BI?

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TABLEAU

1. What are dimensions and measures in Tableau?
2. Explain the difference between a live connection and an extract.
3. How do you perform data blending in Tableau?
4. What is the difference between filters and parameters?
5. Explain the concept of a dual-axis chart in Tableau.
6. How do you create calculated fields in Tableau?
7. What are the different types of joins available in Tableau?
8. How does Tableau handle null values?
9. What are level of detail (LOD) expressions, and when would you use them?
10. How do you improve dashboard performance in Tableau?

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EXCEL

1. What are the most commonly used Excel functions for data analysis?
2. How do you use Pivot Tables to summarize data?
3. Explain the difference between VLOOKUP, HLOOKUP, and INDEX-MATCH.
4. What is conditional formatting, and how can it be used in data analysis?
5. How do you remove duplicate values in Excel?
6. What is the difference between absolute, relative, and mixed cell references?
7. How do you use data validation in Excel?
8. What are Macros in Excel, and how can they be used for automation?
9. How do you handle large datasets efficiently in Excel?
10. How do you use the IF function with multiple conditions?

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STATISTICS

1. What is the difference between descriptive and inferential statistics?
2. Explain the concept of probability distributions.
3. What is p-value, and how do you interpret it?
4. What is the difference between mean, median, and mode?
5. What is correlation, and how does it differ from causation?
6. What is standard deviation, and why is it important?
7. What is hypothesis testing, and what are Type I and Type II errors?
8. What is the Central Limit Theorem, and why is it important in statistics?
9. Explain the difference between a normal distribution and a skewed distribution.
10. What is regression analysis, and when would you use it?

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PYTHON

1. What are the key differences between lists, tuples, and dictionaries in Python?
2. What are Pandas and NumPy, and how are they used in data analysis?
3. How do you handle missing data in Python?
4. What is the difference between a for loop and a while loop?
5. Explain the purpose of the apply() function in Pandas.
6. How do you read and write data using Pandas?
7. What is the difference between shallow copy and deep copy?
8. How do you filter a DataFrame in Pandas?
9. What is the difference between map(), filter(), and reduce()?
10. How do you merge two DataFrames in Pandas?

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SOFT SKILLS & BEHAVIORAL QUESTIONS

1. Tell me about a time you worked on a challenging data project.
2. How do you explain complex data insights to non-technical stakeholders?
3. Describe a time when you used data to make a business decision.
4. How do you handle tight deadlines in a data-driven project?
5. Tell me about a time you made a mistake in your analysis. How did you fix it?
6. What do you do if you find inconsistencies in a dataset?
7. How do you prioritize multiple projects with tight deadlines?
8. Can you describe a time when your insights led to a significant impact?
9. How do you approach learning new data tools or technologies?
10. How do you ensure data accuracy in your work?

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BONUS TIPS

- **Practice SQL queries regularly on platforms like LeetCode and StrataScratch.**
- **Work on real-world projects to showcase your problem-solving skills.**
- **Prepare for behavioral questions using the STAR method.**
- **Stay updated on industry trends and commonly used tools.**
- **Network with professionals and seek mentorship from experienced data analysts.**

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