40 Data Analytics Interview Questions 📖

Difficulty: Beginner and Intermediate

Tools: Excel, SQL and PowerBI
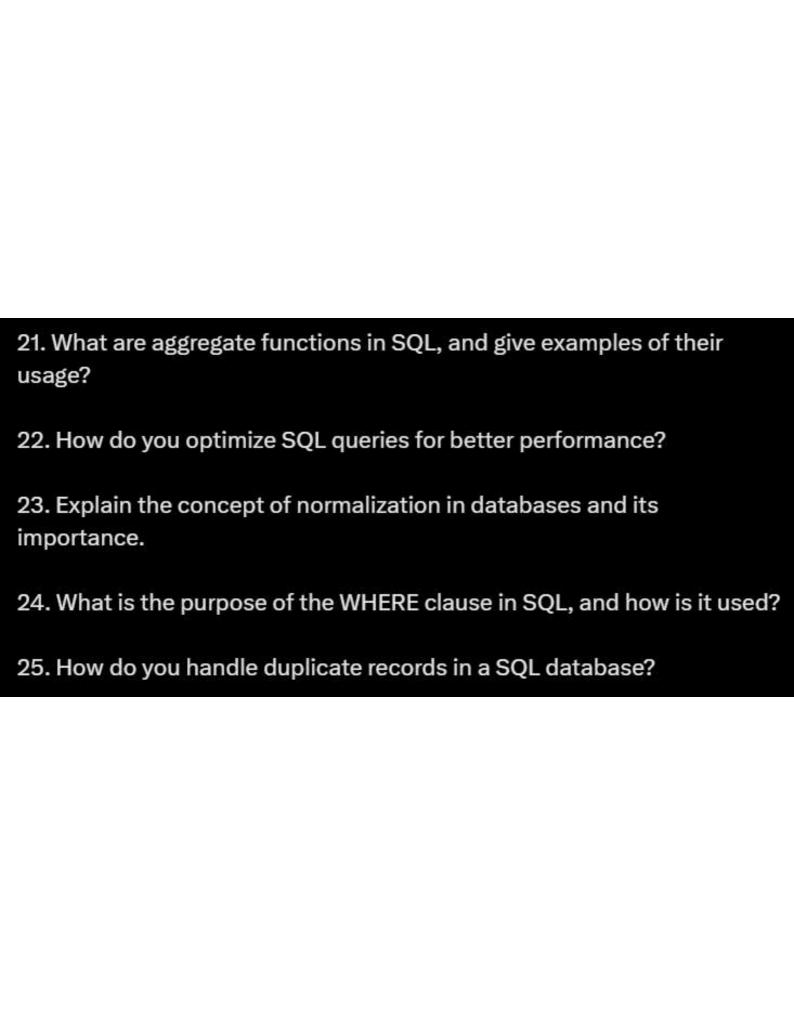
How many can you answer correctly? 🤔🤔

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1. How would you use VLOOKUP and HLOOKUP functions? Explain with an example.

2. What are PivotTables, and how do they assist in data analysis?

3. Can you explain the concept of conditional formatting in Excel?

4. How do you remove duplicates in Excel, and why is it important in data analysis?

5. Explain the difference between absolute and relative cell references.

6. Write a SQL query to retrieve the top 5 highest-paid employees from a table.

7. What is a subquery in SQL, and how is it different from a regular query?

8. Explain the difference between INNER JOIN, LEFT JOIN, and RIGHT JOIN.

9. How do you handle NULL values in SQL queries?

10. Describe the purpose and use case of the GROUP BY clause in SQL.

11. What is Power Query in PowerBI, and how does it facilitate data preparation?

12. Can you explain the concept of relationships in PowerBI?

13. How do you create calculated columns and measures in PowerBI?

14. Explain the difference between slicers and filters in PowerBI.

15. How do you publish a PowerBI report to the Power BI Service for sharing?

16. How does the INDEX-MATCH combination differ from VLOOKUP?

17. Explain the concept of named ranges in Excel and their significance in data analysis.

18. How would you use the CONCATENATE function, and when is it beneficial?

19. Discuss the importance of data validation and how it's implemented in Excel.

20. Explain the purpose and functionality of the IFERROR function in Excel.

21. What are aggregate functions in SQL, and give examples of their usage?

22. How do you optimize SQL queries for better performance?

23. Explain the concept of normalization in databases and its importance.

24. What is the purpose of the WHERE clause in SQL, and how is it used?

25. How do you handle duplicate records in a SQL database?

26. Can you elaborate on the concept of calculated tables in PowerBI?

27. Explain the difference between PowerBI Desktop and Power BI Service.

28. How do you handle data from multiple sources in PowerBI?

29. What are the different types of visuals available in PowerBI, and when would you use each?

30. Describe the process of creating a dashboard in PowerBI.

31. Discuss the benefits and limitations of using Excel for large datasets.

32. How do you create and use array formulas in Excel?

33. Explain the purpose of the IF function and provide an example of its usage.

34. Discuss the differences between Excel's functions: SUM, SUMIF, and SUMIFS.

35. How would you use the Data Analysis ToolPak in Excel?

36. Explain the concept of ACID properties in databases and their significance.

37. What is the role of indexes in databases, and when would you use them?

38. Describe the process of creating and using temporary tables in SQL.

39. How do you perform data migration in SQL databases?

40. Discuss the importance of database normalization and its different forms.