47 Teradata Interview Questions to Assess Candidates' Skills

Questions

1. What is Teradata and what are its primary uses?
2. Can you explain the concept of a Primary Index in Teradata?
3. How does Teradata handle concurrent users and queries?
4. What is the difference between a spool and a cache in Teradata?
5. Explain the concept of skewed data in Teradata and its impact on performance.
6. What is the purpose of the EXPLAIN statement in Teradata?
7. How does Teradata handle data compression, and what are its benefits?
8. What is the difference between a join index and a secondary index in Teradata?
9. How does Teradata handle data partitioning, and what are its advantages?
10. What is the role of the Teradata Optimizer, and how does it impact query performance?
11. What is the difference between a permanent and a volatile table in Teradata?
12. Can you explain the concept of AMP in Teradata architecture?
13. How would you create a sample table in Teradata?
14. What is the purpose of BTEQ in Teradata?
15. Explain the difference between a view and a derived table in Teradata.
16. How does Teradata handle NULL values?
17. What is the significance of the COLLECT STATISTICS statement in Teradata?
18. Can you describe the process of creating a user in Teradata?
19. What are the different types of joins supported in Teradata?
20. How would you monitor system resource usage in Teradata?
21. What is the purpose of the FASTLOAD utility in Teradata?
22. Explain the concept of a fallback table in Teradata.
23. How do you handle error logging in Teradata?
24. What is the difference between a macro and a stored procedure in Teradata?
25. How would you optimize a slow-running query in Teradata?
26. Can you explain the purpose of the DBC database in Teradata?
27. What are the different locking mechanisms in Teradata?
28. How do you perform a data export from Teradata?
29. What is the role of the Teradata Parallel Transporter (TPT)?
30. Can you describe the process of creating a secondary index in Teradata?
31. Can you explain the concept of a star schema in data warehousing?
32. How does slowly changing dimension (SCD) work in Teradata, and what are its types?
33. What is the difference between a fact table and a dimension table in a data warehouse?
34. Explain the concept of data mart and how it differs from a data warehouse.
35. What is ETL in the context of data warehousing, and why is it important?
36. How would you analyze the performance of a complex SQL query in Teradata?
37. Can you describe a scenario where you had to optimize a poorly performing SQL query in Teradata?
38. What techniques do you use to reduce the execution time of SQL queries in Teradata?
39. Explain how you would identify and resolve a bottleneck in a Teradata query.
40. How do you use the Teradata Visual Explain tool to improve query performance?
41. Describe your approach to indexing in Teradata to improve query efficiency.
42. What are some common practices you follow to ensure optimal performance of SQL queries in Teradata?
43. How would you handle a situation where a Teradata query is causing a significant system slowdown?
44. Can you discuss the impact of data distribution on query performance in Teradata?
45. How do you ensure that statistical data is kept up-to-date in Teradata for performance tuning?
46. Describe how you would use Teradata's Query Log (DBQL) for performance analysis.
47. What steps would you take to optimize join operations in Teradata?