

# 40 Oracle SQL interview questions to ask your applicants

## Questions

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1. What are the main purposes of using indexes in SQL databases?
2. Can you explain what a primary key is and its importance in a database?
3. What is the difference between a JOIN and a UNION in SQL?
4. How do you handle NULL values in SQL queries?
5. What is normalization and why is it important in database design?
6. Can you describe what a view is and its benefits?
7. Explain the concept of a foreign key and its role in databases.
8. What are constraints in SQL and can you give examples?
9. How do you optimize a SQL query for better performance?
10. Can you explain the difference between DELETE and TRUNCATE commands?
11. What is a stored procedure, and how is it different from a function in SQL?
12. Can you explain the concept of a trigger and its uses in a database?
13. What are the differences between implicit and explicit cursors in SQL?
14. How do you perform error handling in PL/SQL?
15. What is the purpose of the ROWNUM pseudo-column in Oracle SQL?
16. Can you explain what a sequence is, and how it is used in SQL?
17. How do you implement data security in Oracle SQL?
18. What is the difference between a clustered and a non-clustered index?
19. How would you perform a backup and recovery operation in Oracle SQL?
20. What is the purpose of the EXPLAIN PLAN command in SQL?
21. How would you retrieve the top 5 highest-paid employees from a table?
22. Can you explain the difference between HAVING and WHERE clauses?
23. How would you find duplicate records in a table?
24. Explain the concept of a self-join and when you might use it.
25. How would you calculate a running total in a query?
26. What is the purpose of the MERGE statement in Oracle SQL?
27. How would you pivot data in Oracle SQL?
28. Explain the concept of a correlated subquery and when you might use it.
29. How would you design a database schema for a library management system?
30. Explain the concept of denormalization and when you might use it in database design.
31. How would you implement a many-to-many relationship in a database schema?
32. What considerations would you take into account when designing a database for high-volume transaction processing?
33. How would you design a schema to efficiently store and query hierarchical data?
34. Explain the concept of database partitioning and when it might be beneficial.
35. How would you design a database to handle time-series data efficiently?
36. What are materialized views, and how might you use them in database design?
37. How would you approach designing a database schema for a multi-tenant application?
38. Explain the concept of sharding and its potential benefits in database design.
39. How would you design a schema to efficiently handle geospatial data and queries?
40. What strategies would you employ to ensure data integrity in a distributed database system?