1. Which type of database is more efficient: SQL vs NoSQL?
2. How will you store an image in a database?
3. Difference between file system and RDBMS.
4. What is sharding in databases?
5. What is replication in databases?
6. What is load balancing in databases?
7. Explain normalization and its types (1NF, 2NF, 3NF, BCNF).
8. Difference between primary key and unique key.
9. Can a unique key hold a NULL value?
10. Difference between composite key, unique key, and primary key.
11. What is indexing in DBMS?
12. What is B+ tree? Why is B+ tree used to store tuples in databases?
13. Difference between clustered and non-clustered indexes.
14. Write a query to define a primary key.
15. Write a query to define a foreign key.
16. Difference between DDL (Data Definition Language) and DML (Data Manipulation Language).
17. Difference between TRUNCATE, DELETE, and DROP.
18. SQL which clause executes first: SELECT, FROM, WHERE, GROUP BY, HAVING, ORDER BY?
19. How to find the 999th salary from an Employee table?
20. Explain window functions in SQL.
21. Joins: difference between INNER JOIN, LEFT JOIN, RIGHT JOIN, FULL OUTER JOIN.
22. What is a self join? Give an example.
23. Difference between UNION and UNION ALL.
24. Difference between subquery and correlated subquery.
25. Difference between HAVING and WHERE clauses.
26. Difference between EXISTS and IN.
27. Difference between scalar and aggregate functions.
28. How to store JSON or XML in SQL database.
29. What is query optimization?
30. Explain indexing and how it improves query performance.
31. Other than indexing pagination concept
32. Difference between clustered and non-clustered indexes.
33. What are transactions and ACID properties?
34. Difference between deadlock and livelock.
35. Explain caching in databases.
36. Difference between horizontal and vertical partitioning.
37. Explain B+ tree and why it is preferred for indexing.
38. How to handle large tables efficiently (partitioning, sharding).
39. What is a stored procedure?
40. What is a trigger?
41. What is view
42. Difference between temporary table and permanent table.
43. Explain foreign key constraint and cascade operations.
44. Difference between INNER JOIN and CROSS JOIN.
45. Explain serialization and isolation levels in transactions.
46. What is denormalization and when is it used?
47. How are NULL values treated in SQL? Coalescence
48. What is the difference between SQL and NoSQL databases?
49. Explain foreign key vs reference key in RDBMS.
50. . Difference between static and dynamic SQL.  
     How do transactions work in distributed databases?
51. Explain event-driven triggers.
52. How to find duplicate rows in a table?
53. Difference between CHAR and VARCHAR.
54. Difference between stored procedures and functions.
55. What is a correlated subquery with an example?
56. Explain rank(), dense\_rank(), row\_number() functions.
57. Difference between UNION and JOIN.
58. . What is cascading update and delete?