SQL Questions

1. What is SQL?
2. What are the basic components of a database?
3. How do you create a new table in SQL?
4. How do you alter an existing table to add a new column?
5. What is the purpose of the DROP statement in SQL?
6. How do you retrieve all records from a table using the SELECT statement?
7. What is the difference between SELECT * and SELECT column_name?
8. How do you insert a new record into a table?
9. How do you update existing records in a table?
10. What is the purpose of the DELETE statement?
11. How do you filter records using the WHERE clause?
12. How do you sort records using the ORDER BY clause?
13. What is the difference between ASC and DESC in ORDER BY?
14. How do you group records using the GROUP BY clause?
15. What is the purpose of the HAVING clause?
16. Explain the concept of a JOIN in SQL.
17. What is an INNER JOIN?
18. What is a LEFT JOIN?
19. What is a RIGHT JOIN?
20. What is a FULL OUTER JOIN?
21. What is a subquery?
22. How do you create a view in SQL?
23. What is the purpose of a view?
24. What is a primary key?
25. What is a foreign key?
26. What is a unique constraint?
27. What is a not null constraint?
28. What is a composite key?
29. How do you define a primary key in a table?
30. How do you define a foreign key in a table?
31. What is a data type?
32. What are some common data types in SQL?
33. What is the difference between CHAR and VARCHAR?
34. What is a numeric data type?

35. What is a date/time data type?
36. How do you create a transaction in SQL?
37. What are the ACID properties?
38. What is a commit?
39. What is a rollback?
40. What is the difference between a table and a view?
41. What is a temporary table?
42. How do you create a temporary table?
43. What is an index in SQL?
44. What is the purpose of an index?
45. How do you create an index on a table?
46. What is a clustered index?
47. What is a non-clustered index?
48. How do you backup a database in SQL?
49. What is the purpose of restoring a database?
50. How do you restore a database from a backup?

MongoDB Questions

1. What is MongoDB?
2. What are the basic components of a MongoDB database?
3. How do you create a new database in MongoDB?
4. What is a collection in MongoDB?
5. What is a document in MongoDB?
6. How do you insert a document into a collection?
7. How do you update a document in MongoDB?
8. How do you delete a document from a collection?
9. What are array operations in MongoDB?
10. What is the $push operator?
11. What is the $pop operator?
12. What is the $pull operator?
13. What is the $addToSet operator?
14. What are operators in MongoDB?
15. What is the $eq operator?
16. What is the $gt operator?
17. What is the $lt operator?
18. What is the $in operator?
19. What is the $regex operator?
20. What is a MongoDB cursor?
21. How do you use the find() method in MongoDB?

22. What is a projection in MongoDB?
23. How do you project specific fields in a query?
24. What is the lookup operation in MongoDB?
25. How do you perform a join using the $lookup operator?
26. What is the group operation in MongoDB?
27. How do you use the $group operator?
28. What is sharding in MongoDB?
29. What is the purpose of sharding?
30. How do you enable sharding on a collection?
31. What is a transaction in MongoDB?
32. How do you start a transaction in MongoDB?
33. How do you commit a transaction in MongoDB?
34. How do you abort a transaction in MongoDB?
35. What is the purpose of regular expressions in MongoDB?
36. How do you use regex in a query?
37. What is database design in MongoDB?
38. What is schema design in MongoDB?
39. What are embedded documents in MongoDB?
40. What are referenced documents in MongoDB?
41. How do you query documents in MongoDB?
42. What is indexing in MongoDB?
43. How do you create an index on a collection?
44. What is the purpose of the aggregation framework?
45. How do you use the aggregate() method?
46. What is a pipeline in the aggregation framework?
47. What is the $match stage in aggregation?
48. What is the $sort stage in aggregation?
49. What are security features in MongoDB?
50. How do you manage users and roles in MongoDB?