

# 50 multiple-choice questions (MCQs) on MongoDB

1. What type of database is MongoDB?
  - a) Relational database
  - b) NoSQL database
  - c) Graph database
  - d) In-memory database
  
2. What is BSON in MongoDB?
  - a) A data format
  - b) A database type
  - c) A query language
  - d) A data modeling technique
  
3. What is a document in MongoDB?
  - a) A record in a table
  - b) A column in a collection
  - c) A row in a database
  - d) A JSON-like data structure
  
4. What is a collection in MongoDB?
  - a) A group of databases
  - b) A table in a relational database
  - c) A group of documents
  - d) A schema in a NoSQL database
  
5. Which of the following is the default storage engine in MongoDB?
  - a) MyISAM
  - b) InnoDB

- c) WiredTiger
- d) RocksDB

6. What is sharding in MongoDB?

- a) Splitting a collection into multiple collections
- b) Splitting a database into multiple databases
- c) Splitting data across multiple servers
- d) Splitting a document into multiple documents

7. What is a replica set in MongoDB?

- a) A set of related collections
- b) A group of sharded databases
- c) A set of related documents
- d) A group of MongoDB servers

8. What is the primary key in MongoDB?

- a) \_id
- b) \_key
- c) \_index
- d) \_primary

9. Which of the following is used to perform aggregation in MongoDB?

- a) GROUP BY
- b) JOIN
- c) AGGREGATE
- d) MERGE

10. What is the role of the mongod process in MongoDB?

- a) Handling queries
- b) Handling replication
- c) Handling sharding

d) Handling data storage

11. Which of the following is used to create an index in MongoDB?

- a) `createIndex()`
- b) `addIndex()`
- c) `buildIndex()`
- d) `makeIndex()`

12. What is the role of the balancer in MongoDB?

- a) Balancing the load between databases
- b) Balancing the load between collections
- c) Balancing the load between servers
- d) Balancing the data across shards

13. Which command is used to insert data into a collection in MongoDB?

- a) `db.create()`
- b) `db.insert()`
- c) `db.add()`
- d) `db.put()`

14. What is the purpose of the `find()` method in MongoDB?

- a) To retrieve data from a collection
- b) To update data in a collection
- c) To delete data from a collection
- d) To create a new collection

15. What is the purpose of the `update()` method in MongoDB?

- a) To retrieve data from a collection
- b) To update data in a collection
- c) To delete data from a collection
- d) To create a new collection

16. What is the purpose of the remove() method in MongoDB?

- a) To retrieve data from a collection
- b) To update data in a collection
- c) To delete data from a collection
- d) To create a new collection

17. Which operator is used for equality in MongoDB?

- a) \$eq
- b) \$lt
- c) \$gt
- d) \$ne

18. Which operator is used for less than in MongoDB?

- a) \$eq
- b) \$lt
- c) \$gt
- d) \$ne

19. Which operator is used for greater than in MongoDB?

- a) \$eq
- b) \$lt
- c) \$gt
- d) \$ne

20. Which operator is used for not equal in MongoDB?

- a) \$eq
- b) \$lt
- c) \$gt
- d) \$ne

21. What is the purpose of the \$in operator in MongoDB?

- a) To match any of the values specified in an array
- b) To match all of the values specified in an array
- c) To exclude all of the values specified in an array
- d) To exclude any of the values specified in an array

22. What is the purpose of the \$and operator in MongoDB?

- a) To perform a logical AND operation
- b) To perform a logical OR operation
- c) To perform a logical NOT operation
- d) To perform a logical XOR operation

23. What is the purpose of the \$or operator in MongoDB?

- a) To perform a logical AND operation
- b) To perform a logical OR operation
- c) To perform a logical NOT operation
- d) To perform a logical XOR operation

24. What is the purpose of the \$not operator in MongoDB?

- a) To perform a logical AND operation
- b) To perform a logical OR operation
- c) To perform a logical NOT operation
- d) To perform a logical XOR operation

25. What is the purpose of the \$exists operator in MongoDB?

- a) To check if a field exists
- b) To check if a value exists
- c) To check if a document exists
- d) To check if a collection exists

26. What is the purpose of the \$type operator in MongoDB?

- a) To check the data type of a field
- b) To check the data type of a value
- c) To check the data type of a document
- d) To check the data type of a collection

27. What is the purpose of the \$regex operator in MongoDB?

- a) To perform pattern matching using regular expressions
- b) To perform pattern matching using wildcard characters
- c) To perform pattern matching using exact matches
- d) To perform pattern matching using fuzzy logic

28. What is the purpose of the \$text operator in MongoDB?

- a) To perform text search
- b) To perform text analysis
- c) To perform text transformation
- d) To perform text encryption

29. What is the purpose of the \$slice operator in MongoDB?

- a) To slice an array
- b) To slice a string
- c) To slice a document
- d) To slice a collection

30. What is the purpose of the \$elemMatch operator in MongoDB?

- a) To match elements in an array
- b) To match elements in a string
- c) To match elements in a document
- d) To match elements in a collection

31. What is the purpose of the \$all operator in MongoDB?

- a) To match all elements in an array

b)

To match all elements in a string

c) To match all elements in a document

d) To match all elements in a collection

32. What is the purpose of the \$size operator in MongoDB?

a) To check the size of an array

b) To check the size of a string

c) To check the size of a document

d) To check the size of a collection

33. What is the purpose of the \$push operator in MongoDB?

a) To push a value into an array

b) To pull a value from an array

c) To pop a value from an array

d) To put a value into an array

34. What is the purpose of the \$addToSet operator in MongoDB?

a) To add a value to a set

b) To remove a value from a set

c) To update a value in a set

d) To check if a value exists in a set

35. What is the purpose of the \$pop operator in MongoDB?

a) To push a value into an array

b) To pull a value from an array

c) To pop a value from an array

d) To put a value into an array

36. What is the purpose of the \$pull operator in MongoDB?

- a) To push a value into an array
- b) To pull a value from an array
- c) To pop a value from an array
- d) To put a value into an array

37. What is the purpose of the \$each operator in MongoDB?

- a) To apply multiple operations
- b) To apply each operation
- c) To apply each value in an array
- d) To apply each document in a collection

38. What is the purpose of the \$sort operator in MongoDB?

- a) To sort documents in ascending order
- b) To sort documents in descending order
- c) To sort elements in an array
- d) To sort elements in a string

39. What is the purpose of the \$limit operator in MongoDB?

- a) To limit the number of documents returned
- b) To limit the number of fields returned
- c) To limit the number of elements in an array
- d) To limit the number of characters in a string

40. What is the purpose of the \$skip operator in MongoDB?

- a) To skip documents in the result set
- b) To skip fields in the result set
- c) To skip elements in an array
- d) To skip characters in a string

41. What is the purpose of the \$sum operator in MongoDB?

- a) To sum values in a field



- b) To subtract values in a field
- c) To multiply values in a field
- d) To divide values in a field

42. What is the purpose of the \$avg operator in MongoDB?

- a) To calculate the average of values in a field
- b) To calculate the sum of values in a field
- c) To calculate the minimum value in a field
- d) To calculate the maximum value in a field

43. What is the purpose of the \$max operator in MongoDB?

- a) To find the maximum value in a field
- b) To find the minimum value in a field
- c) To find the average value in a field
- d) To find the sum of values in a field

44. What is the purpose of the \$min operator in MongoDB?

- a) To find the maximum value in a field
- b) To find the minimum value in a field
- c) To find the average value in a field
- d) To find the sum of values in a field

45. What is the purpose of the \$first operator in MongoDB?

- a) To return the first document in the result set
- b) To return the last document in the result set
- c) To return the first value in an array
- d) To return the last value in an array

46. What is the purpose of the \$last operator in MongoDB?

- a) To return the first document in the result set
- b) To return the last document in the result set

- c) To return the first value in an array
- d) To return the last value in an array

47. What is the purpose of the \$dayOfMonth operator in MongoDB?

- a) To extract the day of the week from a date
- b) To extract the day of the month from a date
- c) To extract the month from a date
- d) To extract the year from a date

48. What is the purpose of the \$dayOfYear operator in MongoDB?

- a) To extract the day of the week from a date
- b) To extract the day of the month from a date
- c) To extract the day of the year from a date
- d) To extract the month from a date

49. What is the purpose of the \$month operator in MongoDB?

- a) To extract the day of the week from a date
- b) To extract the day of the month from a date
- c) To extract the month from a date
- d) To extract the year from a date

50. What is the purpose of the \$year operator in MongoDB?

- a) To extract the day of the week from a date
- b) To extract the day of the month from a date
- c) To extract the month from a date
- d) To extract the year from a date

# Answers

1. b) NoSQL database
2. a) A data format
3. d) A JSON-like data structure
4. c) A group of documents
5. c) WiredTiger
6. c) Splitting data across multiple servers
7. d) A group of MongoDB servers
8. a) `_id`
9. c) AGGREGATE
10. d) Handling data storage
11. a) `createIndex()`
12. d) Balancing the data across shards
13. b) `db.insert()`
14. a) To retrieve data from a collection
15. b) To update data in a collection
16. c) To delete data from a collection
17. a) `$eq`
18. b) `$lt`
19. c) `$gt`
20. d) `$ne`
21. a) To match any of the values specified in an array
22. a) To perform a logical AND operation
23. b) To perform a logical OR operation
24. c) To perform a logical NOT operation
25. a) To check if a field exists
26. a) To check the data type of a field
27. a) To perform pattern matching using regular expressions
28. a) To perform text search

- 29. a) To slice an array
- 30. a) To match elements in an array
- 31. a) To match all elements in an array
- 32. a) To check the size of an array
- 33. a) To push a value into an array
- 34. a) To add a value to a set
- 35. c) To pop a value from an array
- 36. b) To pull a value from an array
- 37. c) To apply each value in an array
- 38. a) To sort documents in ascending order
- 39. a) To limit the number of documents returned
- 40. a) To skip documents in the result set
- 41. a) To sum values in a field
- 42. a) To calculate the average of values in a field
- 43. a) To find the maximum value in a field
- 44. b) To find the minimum value in a field
- 45. a) To return the first document in the result set
- 46. b) To return the last document in the result set
- 47. b) To extract the day of the month from a date
- 48. c) To extract the day of the year from a date
- 49. c) To extract the month from a date
- 50. d) To extract the year from a date