

MongoDB - MCQ with answer

Topics : [MongoDB](#)

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1. What is MongoDB?

- a. A relational database
- b. A NoSQL database
- c. A graph database
- d. A file system

Answer: b. A NoSQL database

2. In MongoDB, what is a document?

- a. A record in a table
- b. A field in a collection
- c. A JSON-like data structure
- d. A row in a database

Answer: c. A JSON-like data structure

3. What is the default port for MongoDB?

- a. 3306
- b. 27017
- c. 5432
- d. 8080

Answer: b. 27017

4. Which data format is used in MongoDB for storage and data exchange?

- a. XML
- b. JSON
- c. BSON
- d. YAML

Answer: c. BSON

5. What is a Collection in MongoDB?

- a. A group of related documents
- b. A set of fields

- c. A single document
- d. A table in a relational database

Answer: a. A group of related documents

6. What is the purpose of the `_id` field in MongoDB?

- a. It is a reserved keyword
- b. It must be manually added to each document
- c. It is automatically added to each document as a unique identifier
- d. It is used only for indexing

Answer: c. It is automatically added to each document as a unique identifier

7. How can you update a document in MongoDB?

- a. `db.collection.update()`
- b. `db.collection.modify()`
- c. `db.collection.save()`
- d. `db.collection.edit()`

Answer: a. `db.collection.update()`

8. What does the `$set` operator do in MongoDB?

- a. Adds a new field to a document
- b. Removes a field from a document
- c. Updates a field with a new value
- d. Replaces the entire document

Answer: c. Updates a field with a new value

9. What does the `$elemMatch` operator do in MongoDB?

- a. Matches documents based on an element in an array
- b. Adds a new element to an array
- c. Removes an element from an array
- d. Sorts elements in an array

Answer: a. Matches documents based on an element in an array

10. What is the purpose of the `mongod` process in MongoDB?

- a. It is the MongoDB shell
- b. It is the MongoDB server
- c. It is the MongoDB router
- d. It is the MongoDB driver

Answer: b. It is the MongoDB server

11. How can you create an index in MongoDB?

- a. `db.collection.createIndex()`

- b. `db.createIndex()`
- c. `db.collection.addIndex()`
- d. `db.addIndex()`

Answer: a. `db.collection.createIndex()`

12. What is Sharding in MongoDB?

- a. Document validation
- b. Data replication
- c. Data partitioning
- d. Database encryption

Answer: c. Data partitioning

13. What does the `$push` operator do in MongoDB?

- a. Updates documents
- b. Adds elements to an array
- c. Removes elements from an array
- d. Creates a new collection

Answer: b. Adds elements to an array

14. In MongoDB, what is the purpose of the mongos process?

- a. It is the MongoDB shell
- b. It is the MongoDB server
- c. It is the MongoDB router
- d. It is the MongoDB driver

Answer: c. It is the MongoDB router

15. How can you enable authentication in MongoDB?

- a. Start `mongod` with the `--auth` option
- b. Use the `enableAuth()` method
- c. Set the authentication flag in the configuration file
- d. Authentication is enabled by default

Answer: a. Start `mongod` with the `--auth` option

16. What does the MongoDB profiler do?

- a. Manages connections to the database
- b. Analyzes and optimizes query performance
- c. Enforces data validation rules
- d. Provides real-time data backups

Answer: b. Analyzes and optimizes query performance

17. What is a covered query in MongoDB?

- a. A query that includes all fields of a document
- b. A query that can be fulfilled using an index only
- c. A query for encryption purposes
- d. A query that includes only specific fields

Answer: b. A query that can be fulfilled using an index only

18. What is MongoDB Atlas?

- a. A graphical user interface for MongoDB
- b. An in-memory storage engine for MongoDB
- c. A fully managed cloud database service
- d. A standalone MongoDB shell

Answer: c. A fully managed cloud database service

19. What is GridFS used for in MongoDB?

- a. Document validation
- b. Storing large files by dividing them into smaller chunks
- c. Data replication
- d. Sharding

Answer: b. Storing large files by dividing them into smaller chunks

20. How do you perform aggregation in MongoDB?

- a. Using the \$aggregate operator
- b. Using the aggregate() method
- c. Using the \$group operator
- d. Aggregation is not supported in MongoDB

Answer: b. Using the aggregate() method

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

- a. Adds elements to an array
- b. Removes elements from an array
- c. Updates documents
- d. Replaces the entire document

Answer: b. Removes elements from an array

22. Which operator is used to perform equality matching on arrays in MongoDB?

- a. \$in
- b. \$eq
- c. \$ne
- d. \$all

Answer: b. \$eq

23. What does the `db.getCollectionNames()` method do in MongoDB?

- a. Retrieves the list of databases
- b. Retrieves the list of collections in the current database
- c. Retrieves the list of documents in a collection
- d. Retrieves the list of fields in a document

Answer: b. Retrieves the list of collections in the current database

24. What is the purpose of the `$addToSet` operator in MongoDB?

- a. Adds elements to an array
- b. Removes elements from an array
- c. Adds elements to an array only if they do not already exist
- d. Updates documents

Answer: c. Adds elements to an array only if they do not already exist

25. How can you find distinct values in a field using MongoDB?

- a. `db.collection.distinct()`
- b. `db.collection.findDistinct()`
- c. `db.distinct()`
- d. `db.findDistinct()`

Answer: a. `db.collection.distinct()`

26. What does the `explain()` method do in MongoDB?

- a. Displays information about the database schema
- b. Displays detailed information about the execution of a query
- c. Executes a query and displays the result
- d. Exports the data in the collection to a file

Answer: b. Displays detailed information about the execution of a query

27. What is the purpose of the `$exists` operator in MongoDB?

- a. Matches documents where a field does not exist
- b. Matches documents where a field exists
- c. Matches documents based on the existence of an array
- d. Matches documents based on the absence of a specific field

Answer: b. Matches documents where a field exists

28. How can you sort the results of a query in descending order in MongoDB?

- a. `db.collection.sort({field: -1})`
- b. `db.collection.orderBy({field: -1})`
- c. `db.collection.find().sort({field: -1})`

d. `db.collection.find().orderBy({field: -1})`

Answer: c. `db.collection.find().sort({field: -1})`

29. Which of the following is true about the `$regex` operator in MongoDB?

- a. It is used for adding regular expressions to documents
- b. It is used for searching text within documents using regular expressions
- c. It is used for updating documents with regular expressions
- d. It is used for removing regular expressions from documents

Answer: b. It is used for searching text within documents using regular expressions

30. What is the purpose of the `mongorestore` tool in MongoDB?

- a. It is used to export data from MongoDB
- b. It is used to query the MongoDB database
- c. It is used to restore a previously created MongoDB database backup
- d. It is used to create a new MongoDB collection

Answer: c. It is used to restore a previously created MongoDB database backup

31. What does the `$and` operator do in MongoDB?

- a. Performs a logical AND operation on an array of expressions
- b. Adds elements to an array
- c. Removes elements from an array
- d. Performs a logical OR operation on an array of expressions

Answer: a. Performs a logical AND operation on an array of expressions

32. How do you remove documents from a collection in MongoDB?

- a. `db.collection.delete()`
- b. `db.collection.remove()`
- c. `db.collection.drop()`
- d. `db.collection.truncate()`

Answer: b. `db.collection.remove()`

33. What is the purpose of the `$slice` operator in MongoDB?

- a. To slice arrays within documents
- b. To slice documents within a collection
- c. To slice fields within documents
- d. To slice collections within a database

Answer: a. To slice arrays within documents

34. Which of the following is a valid projection in MongoDB?

- a. `db.collection.find({}, {field1: 1, field2: 0})`
- b. `db.collection.find({}, {field1: true, field2: false})`

- c. `db.collection.find({}, {field1: include, field2: exclude})`
- d. `db.collection.find({}, {field1: "include", field2: "exclude"})`

Answer: b. `db.collection.find({}, {field1: true, field2: false})`

35. What is the purpose of the mongotop tool in MongoDB?

- a. It is used to perform aggregation on MongoDB collections
- b. It is used to monitor disk I/O
- c. It is used to monitor MongoDB server operations
- d. It is used to export data from MongoDB to a file

Answer: c. It is used to monitor MongoDB server operations

36. How can you limit the number of documents returned in a MongoDB query?

- a. `db.collection.limit(5)`
- b. `db.collection.find().limit(5)`
- c. `db.collection.setLimit(5)`
- d. `db.collection.find().setLimit(5)`

Answer: b. `db.collection.find().limit(5)`

37. What is the purpose of the mongodump tool in MongoDB?

- a. It is used to import data into MongoDB
- b. It is used to query the MongoDB database
- c. It is used to create a backup of a MongoDB database
- d. It is used to delete data from MongoDB

Answer: c. It is used to create a backup of a MongoDB database

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

- a. To calculate the average value of a field
- b. To concatenate strings in a field
- c. To count the number of documents
- d. To calculate the sum of numeric values in a field

Answer: d. To calculate the sum of numeric values in a field

39. Which method is used to create an index on multiple fields in MongoDB?

- a. `db.collection.createIndex({field1: 1, field2: 1})`
- b. `db.collection.createIndex({field1: "asc", field2: "asc"})`
- c. `db.collection.createIndex({field1: "asc", field2: "desc"})`
- d. `db.collection.createIndex({field1: 1}, {field2: 1})`

Answer: a. `db.collection.createIndex({field1: 1, field2: 1})`

40. What is the purpose of the \$out stage in MongoDB Aggregation?

- a. To append documents to an existing collection
- b. To create a new collection with the aggregated results
- c. To update existing documents in a collection
- d. To remove documents from a collection

Answer: b. To create a new collection with the aggregated results

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