

MongoDB Certified Developer Associate Exam

1. Select all true statements regarding to the role of fields and values in a MongoDB document. (select 2)

A. A field is a unique identifier for a specific data point.

B. You can have duplicate field names within the same level of a single document.

C. Values don't need to be attached to fields and can be standalone data points.

D. Each field has a value associated with it.

Answer(s): A,D

2. Assign typical operational tasks to the Data Scientist.

A. read data

B. write data, read data

C. create user, create index

D. write data

Answer(s): A

3. We have the following index in a movies collection: { title: 1, genres: 1 } We want to insert the following document: { "title": "The Immigrant", "year": 1917, "genres": ["Short", "Comedy", "Drama"] } Select proper index entries.

A. "The Immigrant", "Short"

B. "The Immigrant", "Comedy"

C. "The Immigrant", "Drama"

D. "Short", "The Immigrant"

E. "Comedy", "The Immigrant"

F. "Drama", "The Immigrant"

G. "The Immigrant", "Short", "Comedy", "Drama"

Answer(s): C

4. Which of the following actions are granted to the built-in readWrite role?

A. update

B. remove

C. insert

D. find

Answer(s): A,B,C,D

5. Select all true statements about the update operation. (select 2)

A. updateOne() method with the \$set operator updates the first document that matches the query.

B. If the field doesn't exist, updateOne() method with the \$set operator will not add a new field with the specified value.

C. updateOne() method with the \$set operator updates an existing document field with the given value.

Answer(s): A,C

6. Use case: e-learning platform Which of the following scenarios is the best candidate to use the Extended Reference Pattern to avoid additional reads by joins/lookups?

A. A course model needs to store references to image of the course that are kept in an external location outside the database.

B. Our app needs to retrieve a course and information about its instructor.

C. Our app needs to retrieve a course and its ten most recent reviews.

D. A course model needs to store a counter representing the number of times it was purchased.

Answer(s): B

7. Suppose you have a developers collection with only two documents:

A. 9

B. 2

C. 7

D. 5

E. 4

Answer(s): A

8. Suppose you want to join two collections in the same database. What aggregation stage do you need to use?

A. \$out

B. \$lookup

C. \$project

Answer(s): B

9. The users collection in the database is given. Which field will be the best candidate for an index in terms of cardinality?

A. gender (low cardinality)

B. age (medium cardinality)

C. email (high cardinality)

Answer(s): C

10. Which collection method do you need to use to drop a specific collection?

A. `db.collection.drop()`

B. `db.collection.dropIndex()`

C. `db.collection.dropCollection()`

D. `db.collection.remove()`

Answer(s): A

11. Why is MongoDB a NoSQL database?

A. Because MongoDB uses a structured way to store and organize data (collections).

B. Because MongoDB uses tables, rows and columns to organize data.

C. Because MongoDB does not utilize tables, rows and columns to organize data.

Answer(s): A,C

12. Select all true statements about the \$facet stage.

A. The output of the \$facet stage is subject to the 32 MB document size limit. If the results of the \$facet stage exceed this limit, the aggregation produces an error.

B. The output of the \$facet stage is subject to the 16 MB document size limit. If the results of the \$facet stage exceed this limit, the aggregation produces an error.

C. The \$facet stage processes multiple aggregation pipelines within a single stage on the same set of input documents.

Answer(s): B,C

13. How can we represent a one-to-one relationship in MongoDB?

A. We can link to a single document in another collection.

B. We can embed fields as a child document in the document.

C. We can embed fields in the document.

Answer(s): A,B,C

14. Consider a one-to-one relationship observed between users and the users details. Basic information about application users is separated from detailed information. Which of the following are true about modeling this one-to-one relationship with the document model in MongoDB?

A. We can embed fields with detailed information as a subdocument in the users collection.

B. We can embed fields with detailed information in the users collection.

C. We can link to a single document with detailed information in another collection.

Answer(s): A,B,C

15. Select true statements about the naming convention of collections in MongoDB.

A. Collection names should not contain \$ sign.

B. Don't create collections that start with system.

C. Empty string "" cannot be a collection name.

Answer(s): A,B,C

16. Given a movies collection where each document has the following structure: { _id: ObjectId("573a1390f29313caabcd60e4"), genres: ['Short', 'Comedy', 'Drama'], title: 'The Immigrant', year: 1917, imdb: { rating: 7.8, votes: 4680, id: 8133 }, countries: ['USA'] } This time we are using the Aggregation Framework to search our database. Which of the following queries will find all movies with a rating greater than 8?

A. db.movies.aggregate([{ \$match: { imdb.rating: { \$gt: 8 } } }])

B. db.movies.aggregate([{ \$match: { "imdb.rating": { \$gte: 8 } } }])

C. db.movies.aggregate([{ \$match: { "imdb.rating": { \$gt: 8 } } }])

Answer(s): C

17. How to shutdown the server? (Mongo shell)

A. use admin

B. db.shutdown()

C. use admin

D. db.shutdownServer()

E. use admin

F. db.disconnect()

Answer(s): D

18. Why is MongoDB using BSON instead of JSON to store data? Select all that apply.

A. BSON format is not human readable (BSON is machine-readable only).

B. BSON supports more data types than JSON.

C. BSON contains metadata to describe a document/object.

D. BSON simply means 'Binary JSON'.

Answer(s): A,B,C,D

19. Select all valid BSON types in MongoDB. (select 4)

A. ObjectId

B. Boolean

C. String

D. Array

E. Dictionary

Answer(s): A,B,C,D

20. Given a movies collection where each document has the following structure: { _id: ObjectId("573a1390f29313caabcd60e4"), genres: ['Short', 'Comedy', 'Drama'], title: 'The Immigrant', year: 1917, imdb: { rating: 7.8, votes: 4680, id: 8133 }, countries: ['USA'] } Which of the following queries will find all Comedy movies that were made in 2000? (select 2)

A. `db.movies.find({ year: 2000 }, { genres: "Comedy" })`

B. `db.movies.find({ $or: [{ year: 2000 }, { genres: "Comedy" }] })`

C. `db.movies.find({ year: 2000, genres: "Comedy" })`

```
D. db.movies.find( { $and: [ { year: 2000 }, { genres: "Comedy" } ] } )
```

Answer(s): C,D
