MongoDB

C100DEV

MongoDB Certified Developer Associate

QUESTION & ANSWERS

Question: 1

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How does the document relate to the collection in MongoDB? Check all that apply.

A. Collections consists of one or many documents.

B. Documents consist of collections.

C. Collections are tables of documents.

D. Documents are organized into collections.

Answer: A,D

Explanation/Reference:

MongoDB stores data records as documents (specifically BSON documents) which are gathered together in collections. A database stores one or more collections of documents.
https://docs.mongodb.com/manual/core/databases-and-collections/

Question: 2

Which of the following commands will successfully insert exactly two new documents into an empty companies collection? (select 3)

A. db.companies.insertMany([{"_id": 1, "name": "Facebook"},   {"_id": 1, "name": "Twitter"},   {"_id": 2, "name": "Tesla"}])

B. db.companies.insertMany([{"_id": 1, "name": "Facebook"},   {"_id": 2, "name": "Twitter"},   {"_id": 2, "name": "Tesla"}])

C. db.companies.insertMany([{"_id": 1, "name": "Facebook"},   {"_id": 2, "name": "Twitter"}])

D. db.companies.insertMany([{"name": "Facebook"},   {"name": "Twitter"}])

E. db.companies.insertMany([{"_id": 1, "name": "Facebook"},   {"_id": 1, "name": "Twitter"},   {"_id": 1, "name": "Apple"},   {"_id": 2, "name": "Tesla"}])

Explanation/Reference:

The insertMany() method has the following syntax:
db.collection.insertMany(

```
1. db.collection.insertMany(
2.    [ <document 1> , <document 2>, ... ],
3.    {
4.        writeConcern: <document>,
5.        ordered: <boolean>
6.    }
7. )
```

Inserts multiple documents into a collection. Given an array of documents, insertMany() inserts each document in the array into the collection. By default documents are inserted in order. If ordered is set to false, documents are inserted in an unordered format and may be reordered by mongod to increase performance.
https://docs.mongodb.com/manual/reference/method/db.collection.insertMany/

Question: 3

Suppose you insert the following documents into companies collection:
db.companies.insertMany([
    {"_id": 1, "name": "Facebook"},
    {"_id": 1, "name": "Twitter"},
    {"_id": 2, "name": "Tesla"},
    {"_id": 3, "name": "Amazon"}
], {"ordered": false})
Select all true statements about this operation. (select 3)

A. This insert is unordered.

B. Two documents will be inserted into the collection.

C. Three documents will be inserted into the collection.

D. One document will be inserted into the collection.

E. MongoDB will insert each document with a unique _id value into the collection.

Explanation/Reference:

The insertMany() method has the following syntax:
db.collection.insertMany(

```
1. db.collection.insertMany(
2.    [ <document 1> , <document 2>, ... ],
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Inserts multiple documents into a collection. Given an array of documents, insertMany() inserts each document in the array into the collection. By default documents are inserted in order. If ordered is set to false, documents are inserted in an unordered format and may be reordered by mongod to increase performance.
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Question: 4

What are some of the uses for the $ sign in MQL (MongoDB Query Language)? (select 2)

A. The $ sign is used to calculate the average in MongoDB.

B. The $ sign has no special meaning in MQL.

C. $ denotes an operator - all MQL operators have the $ prefix.

D. When $ is used to prefix a field name, it represents the value stored in that field.

Answer: C,D

Explanation/Reference:

https://docs.mongodb.com/manual/core/dot-dollar-considerations/

Question: 5

Suppose you have a movies collection with the following document structure:
{
 _id: ObjectId("573a1390f29313caabcd60e4"),
 title: 'The Immigrant',
 fullplot: "Charlie is on his way to the USA. He wins in a card game, puts the money in Edna's bag (she and her sick mother have been robbed of everything). When he retrieves a little for himself he is accused of being a thief. Edna clears his name. Later, broke, Charlie finds a coin and goes into a restaurant."
}
You want to sort result set by a relevance score computed by MongoDB in text search query and extract only three documents with the highest score. Which query do you need to use?

A. db.movies.find({ $text: { $search: 'spaceship' } },   { score: { $meta: 'textScore' } },).sort({ score: { $meta: 'textScore' } }).limit(3)

B. db.movies.find({ $text: { $search: 'spaceship' } },   { score: { $meta: 'textScore' } },).sort({ score: { $meta: 'textScore' } })

C. db.movies.find({},   { score: { $meta: 'textScore' } },).sort({ score: { $meta: 'textScore' } }).limit(3)

D. db.movies.find({ $text: { $search: 'spaceship' } },   { score: { $meta: 'textScore' } },).sort({ score: { $meta: 'score' } }).limit(3)

Answer: A

Explanation/Reference:

The $text operator assigns a score to each document that contains the search term in the indexed fields. The score represents the relevance of a document to a given text search query. The score can be part of a sort() method specification as well as part of the projection expression. The { $meta: "textScore" } expression provides information on the processing of the $text operation.
https://docs.mongodb.com/manual/text-search/
https://docs.mongodb.com/manual/core/index-text/

Question: 6

Select all true statements about the differences between using aggregate() and find() methods. (select 2)

A. Any find() query can be translated into an aggregation pipeline.

B. find() allows us to compute and reshape data in the cursor.

C. aggregate() allows us to compute and reshape data in the cursor (like $group, $min and other stages).

D. Any aggregation pipeline can be translated into a find() query.

Answer: A,C

Explanation/Reference:

db.collection.find(query, projection) selects documents in a collection or view and returns a cursor to the selected documents. The projection parameter determines which fields are returned in the matching documents.
db.collection.aggregate(pipeline, options) calculates aggregate values for the data in a collection or a view.
https://docs.mongodb.com/manual/reference/method/db.collection.find/
https://docs.mongodb.com/manual/reference/method/db.collection.aggregate/

Question: 7

What is the built-in database called local in MongoDB for?

A. The local database plays an important role in the authentication and authorization process. Certain actions performed by administrators also require access to this database.

B. The local database is used to store information about shards in shared MongoDB cluster.

C. The local database stores data describing the MongoDB server. For replica sets, it also stores information about the replication process.

Answer: C