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Exam : **C100DEV**

Title : MongoDB Certified
Developer Associate

Version : DEMO

1. 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: A,C

Explanation:

<https://www.mongodb.com/nosql-explained>

2. 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 perform text search queries on fullplot field.

What do you have to do?

Just query the database. For example:

A. Just query the database. For example:

```
db.movies.find( { $text: { $search: 'spaceship' } } ).explain()
```

B. First, create a text index: `db.movies.createIndex({ fullplot: 'text' })` Then query the database:

```
db.movies.find( { $text: { $search: 'spaceship' } } )
```

C. First, create an index:

D. `db.movies.createIndex({ fullplot: 1 })` Then query the database:

```
db.movies.find( { $text: { $search: 'spaceship' } } )
```

Answer: B

Explanation:

<https://docs.mongodb.com/manual/text-search/>

<https://docs.mongodb.com/manual/core/index-text/>

3. In your database there is a collection named trips with the following document structure:

```
{
  '_id': ObjectId("572bb8222b288919b68abf6d"),
  'trip_duration': 858,
  'start_station_id': 532,
  'end_station_id': 401,
  'bike_id': 17057,
  'start_station_location': { type: 'Point', coordinates: [ -73.960876, 40.710451 ] }, 'end_station_location':
  { type: 'Point', coordinates: [ -73.98997825, 40.72019576 ] }, 'start_time': ISODate("2016-01-01T00:09:31.000Z"), 'stop_time': ISODate("2016-01-01T00:23:49.000Z") }
```

How can you extract all trips from this collection ended at stations that are to the west of the -73.5 longitude coordinate?

A. `db.trips.find({ 'coordinates': { $lt: -73.5 } })`

B. `db.trips.find({ 'end_station_location.coordinates.0': { $gt: -73.5 } })`

- C. db.trips.find({ 'end_station_location.coordinates.0': { \$lt: -73.5 } })
- D. db.trips.find({ 'end_station_location.coordinates.1': { \$lt: -73.5 } })

Answer: C

Explanation:

<https://docs.mongodb.com/manual/reference/operator/query/lt/>

4.You have a developers collection with the following document structure:

```
{
  _id: 1,
  fname: 'John',
  lname: 'Smith',
  tech_stack: ['sql', 'git', 'python', 'linux', 'django', 'aws']
},
{
  _id: 2,
  fname: 'Michael',
  lname: 'Doe',
  tech_stack: [ 'git', 'python', 'sqlite', 'linux', 'flask' ]
}
```

Which of the following queries will return only the first three elements of the array in the tech_stack field?

- A. db.developers.find({}, { tech_stack: [0, 1, 2] })
- B. db.developers.find({ tech_stack: { \$slice: [0, 3] } })
- C. db.developers.find({}, { tech_stack: [0, 3] })
- D. db.developers.find({}, { tech_stack: { \$slice: [0, 3] } })

Answer: D

Explanation:

<https://docs.mongodb.com/manual/reference/operator/update/slice/>

5.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

Explanation:

<https://docs.mongodb.com/manual/reference/local-database/>