MongoDB test questions

I. Single-Select

1. Which data model is used in MongoDB?

(A)Key-Value based

(B)Document based

(C)Graph based

(D)Column based

Answer：B

2. Which is the transaction level that MongoDB guarantees?

(A)DB level

(B)Collection level

(C)Document level

(D)Field level

Answer：C

3. Which of the following is correct explanation of MongoDB processes?

(A)mongod.exe is the shell process and mongo.exe is the actual database process

(B)mongo.exe is the shell process and mongod.exe is the actual database process

(C)mongos.exe is the MongoDB server process needed to run database

(D)mongodump.exe can be used to import database backup dump

Answer：B

4. In our posts collection, which command can be used to find all the posts whose author names begin lie between "A" and "C" in dictionary order?

(A)db.posts.find( { post\_author : { $gt : "A" , $lt : "C" } } );

(B)db.posts.find( { post\_author : { $gt : "C" , $lt : "A" } } );

(C)db.posts.find( { post\_author : { $between : ["A" ,"C"] } } );

(D)None of above.

Answer：D

5. What does the following query do when performed on the posts collection?

**db.posts.update({\_id:1},{$set:{Author:"Tom"}})**

(A)Sets the complete document with \_id as 1 with the document specified in second parameter by replacing it completely

(B)Adds a new field Author in the searched collection if not already present

(C)Updates only the Author field of the document with \_id as 1

(D)Both B and C

Answer：D

6. Consider the following posts document

|  |
| --- |
| {  \_id: 1,  post\_text: "This is my first post",  author: "Tom",  tags: ["tutorial","quiz","facebook","learning","fun"]  } |

Which of the following queries will return the documents but with only the first two tags in the tags array?

(A)db.posts.find({author:"Tom"},{tags:{$slice:2}})

(B)db.posts.find({author:"Tom"}).limit({tags:2})

(C)db.posts.find({author:"Tom"}).limit($slice:{tags:2})

(D)Both a and c are valid. $slice works both with projection and limit.

Answer：A

7. What does the totalKeysExamined field returned by the explain method indicate?

(A)Number of documents that match the query condition

(B)Number of index entries scanned

(C)Number of documents scanned

(D)Details the completed execution of the winning plan as a tree of stages

Answer：B

8. Which of the following is incorrect statement about find and findOne operations in MongoDB?

(A)find() returns all the documents in a collection while findOne() retrieves only the first one.

(B)find() and findOne() returns cursors to the collection documents

(C)findOne() returns the actual first document retrieved from a collection

(D)find.limit(1) is not the same query as findOne()

II. How can you achieve primary key - foreign key relationships in MongoDB?

Answer:

|  |
| --- |
| By default MongoDB does not support such primary key - foreign key relationships. However, we can achieve this concept by embedding one document inside another. Foe e.g. an address document can be embedded inside customer document. |

III. Suppose we have a collection to store user articles, the document structure is like:

|  |
| --- |
| {  \_id: 1,  title: “Hello Tom”  text: “One day, I meet Tom. We have dinner in KFC.”,  author\_id: 15,  author\_name: "Tom",  votes: 120,  gender: “M” // M or F  tags: [“food”, “tom”, “travel”]  } |

Please implement the statements to:

(1)Find the title and author\_name of the article which has the highest votes.

(2)Find the author\_id who submits the most articles

(3)Find the titles of articles which have a tag “computer”

IV. Consider we are going to implement a Library management system to manage books. Books can be borrowed by students. Please design document model and build indexes to meet the following requirements：

* Easily and quickly find out one specified book is borrowed by which students.
* Easily and quickly find out what books are borrowed by one specified student.
* Easily and quickly find out the Top N Hot books(borrowed by most students)