FIT2095 e-Business software technologies - S2 2021

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Grade	**10.00** out of 10.00 (**100**%)

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Question **1**
Correct
Mark 1.00 out of 1.00

With respect to MongoDB features, which of the following is false?

Select one:

- ◉ a.   only primary key can be used as an index ✔
- ○ b.   MongoDB supports Ad-Hoc Queries
- ○ c.   MongoDB high availability is achieved by the replication facility, which is called replica set
- ○ d.   document data structure is composed of field and value pairs.

Your answer is correct.

The correct answer is: only primary key can be used as an index

Question **2**
Correct
Mark 1.00 out of 1.00

The table of relational database management system is called ------ in MongoDB

Select one:
- ○ a.   Record
- ◉ b.   Collection ✔
- ○ c.   Document
- ○ d.   Table
- ○ e.   Book

Your answer is correct.

Question 3

Correct

Mark 1.00 out of 1.00

With respect to the only requirement in MongoDB collection, which of the following is true?

Select one:

○ a.   require to define a schema for a collection

◉ b.   each document must have a unique _id ✔

○ c.   binary data can not be stored as a value of a field

○ d.   documents can not be empty

Your answer is correct.

The correct answer is: each document must have a unique _id

Question 4

Correct

Mark 1.00 out of 1.00

assume you have this fragment of code:

```
let query = { address: /n$/ };
db.collection("warehouse").find(query).toArray(function (err, result) {
 if (err) throw err;
 console.log(result);
});
```

The result will be:

Select one:

○ a.   all the documents with address field that ends with the suffix '/n$/'

○ b.   the first document with address field that ends with the letter 'n'

○ c.   all the documents with address field that starts with the letter 'n'

◉ d.   all the documents with address field that end with the letter 'n' ✔

○ e.   the last document with address field that ends with the letter 'n'

Your answer is correct.

The correct answer is: all the documents with address field that end with the letter 'n'

Question 5

Correct

Mark 1.00 out of 1.00

assume you have this fragment of code:

```
let query = { quantity: { $gte: 25 } };
db.collection("warehouse").find(query).toArray(function (err, result) {
 if (err) throw err;
```

```
  console.log(result);
});
```

The result will be:

Select one:

○ a.   the first document with field quantity that has value greater than or equal to 25

○ b.   all the documents with field quantity that has value greater 25

◉ c.   all the documents with field quantity that has value greater than or equal to 25   ✔

○ d.   all the documents with field quantity that has value not greater than or equal to 25

○ e.   all the documents with field quantity that has the object { $gte: 25 } in its value

Your answer is correct.

The correct answer is: all the documents with field quantity that has value greater than or equal to 25

Question **6**

Correct

Mark 1.00 out of 1.00

Assume you have this fragment of code:

```
let query = { quantity: { $lte: 25 } };
let sortBy = { price: -1 }
db.collection("warehouse").find(query).sort(sortBy).limit(5).toArray(function (err, result) {
 if (err) throw err;
 console.log(result);
});
```

The result will be:

Select one:

○ a.   the first document of a list sorted in descending order by attribute price with quantity attribute less than or equal 25

○ b.   the first 5 documents of a list sorted in descending order by attribute price with quantity attribute greater than or equal 25

○ c.   the first 5 documents of a list sorted in ascending order by attribute price with quantity attribute less than or equal 25

◉ d.   the first 5 documents of a list sorted in descending order by attribute price with quantity attribute less than or equal 25   ✔

○ e.   all the documents of a list sorted in descending order by attribute price with quantity attribute less than or equal 25

Your answer is correct.

The correct answer is: the first 5 documents of a list sorted in descending order by attribute price with quantity attribute less than or equal 25

Question **7**

Correct

Mark 1.00 out of 1.00

To delete all documents with price attribute does not equal to 350 from a collection named 'warehouse', we should use:

Select one:

○ a.
```
db.collection("warehouse").deleteOne({price: { $ne:  350}}, function (err, obj) {
  console.log(obj.result);
});
```

○ b.
```
db.collection().deleteMany({price: { $ne:  350}}, function (err, obj) {
  console.log(obj.result);
});
```

○ c.
```
db.collection("warehouse").deleteMany({price: { $gte:  350}}, function (err, obj) {
  console.log(obj.result);
});
```

◉ d.
```
db.collection("warehouse").deleteMany({price: { $ne:  350}}, function (err, obj) {
  console.log(obj.result);
});
```
✔

○ e.
```
db.collection("warehouse").deleteAll({price: { $ne:  350}}, function (err, obj) {
  console.log(obj.result);
});
```

Your answer is correct.

The correct answer is:
```
db.collection("warehouse").deleteMany({price: { $ne:  350}}, function (err, obj) {
  console.log(obj.result);
});
```

Question **8**

Correct

Mark 1.00 out of 1.00

Assume you have this fragment of code:

```
db.collection("warehouse").updateMany({ itemName: /x$/ }, { $inc: { quantity: 2 } }, { upsert: false}, function (err, result)
{
});
```

What does this code do?

Select one:

○ a. increments the quantity by 2 for all documents with field itemName starts by letter 'x' in a collection named 'warehouse'

◉ b. increments the quantity by 2 for all documents with field itemName ends by letter 'x' in a collection named 'warehouse'   ✔

○ c. increments the quantity by 2 for all documents with field itemName ends by letter 'x' in a collection named 'warehouse' OR insert a new document if there is no match.

○ d. sets the itemName field to '/x$/' for all documents with quantity field equal to 2 in a collection named 'warehouse'

Your answer is correct.

The correct answers are: increments the quantity by 2 for all documents with field itemName ends by letter 'x' in a collection named 'warehouse', increments the quantity by 2 for all documents with field itemName starts by letter 'x' in a collection named 'warehouse'

Question **9**

Correct

Mark 1.00 out of 1.00

With respect to MongoDB Compass Community software, which of the following is false?

Select one:

○ a. Visually explore your data

○ b. Available on Windows, Mac and Linux

◉ c. it works as a driver for Node.js application to connect to MongoDB server ✔

○ d. View and optimize your query performance

○ e. Interact with your data with full CRUD functionality

Your answer is correct.

The correct answer is: it works as a driver for Node.js application to connect to MongoDB server

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Question **10**

Correct

Mark 1.00 out of 1.00

```
MongoClient.connect("http://localhost:8080/", {useNewUrlParser: true}, function (err, client) {
    if (err) {
        console.log('Err ', err);
    } else {
        console.log("Connected successfully to server");
        db = client.db('warehouse');
    }
});
```

With respect to the above code, which of the following is true?

Select one:

○ a. The code has an issue: the URL protocol should be 'mongodb:' instead of 'http:' and the port number should be 27017

◉ b. The code has an issue: the URL protocol should be 'mongodb:' instead of 'http:' ✔

○ c. The code has an issue: the port number should be 27017

○ d. The code has no issue

○ e. The code has an issue: the URL protocol should be 'https:' instead of 'http:' and the port number should be 27017

Your answer is correct.

The correct answer is: The code has an issue: the URL protocol should be 'mongodb:' instead of 'http:'

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