

1)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   console.log("Database created!");
7   db.close();
8 });
9
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_1.js
Database created!
```

2)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   db.createCollection("studentmarks", function(err, res) {
7     if (err) throw err;
8     console.log("Table created!");
9     db.close();
10  });
11 });
12
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_2.js
Table created!
```

3)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/mydb";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var studentmarks = [
7     { name: 'Mala', maths_marks: '45', english_marks: '53', science_marks: '72'},
8     { name: 'Vanu', maths_marks: '80', english_marks: '75', science_marks: '85'},
9     { name: 'Kala', maths_marks: '32', english_marks: '46', science_marks: '53'},
10    { name: 'Aruli', maths_marks: '78', english_marks: '85', science_marks: '80'},
11    { name: 'Shayu', maths_marks: '80', english_marks: '76', science_marks: '65'},
12    { name: 'Kumaran', maths_marks: '32', english_marks: '73', science_marks: '84'},
13    { name: 'Lucky', maths_marks: '66', english_marks: '90', science_marks: '45'},
14    { name: 'Gva', maths_marks: '71', english_marks: '75', science_marks: '56'},
15    { name: 'Raam', maths_marks: '41', english_marks: '65', science_marks: '88'}
16  ];
17  db.collection("studentmarks").insert(studentmarks, function(err, res) {
18    if (err) throw err;
19    console.log("Number of records inserted: " + res.insertedCount);
20    db.close();
21  });
22 });
23
```

4)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://127.0.0.1:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var myquery = { maths_marks: '45' };
7   var newvalues = { name: 'Mala', maths_marks: '51', english_marks: '53', science_marks: '72' };
8   db.collection("studentmarks").update(myquery, newvalues, function(err, res) {
9     if (err) throw err;
10    console.log(res.result.nModified + " record updated");
11    db.close();
12  });
13 });
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_3.js
Number of records inserted: 9
```

5)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   db.collection("studentmarks").find({maths_marks:{$gt:50}}).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```

ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02\$ node ex2_5.js

```
[ { _id: 59268c0f202c12c9a80006b3,
  name: 'Mala',
  maths_marks: 51,
  english_marks: 53,
  science_marks: 72,
  average: '' },
  { _id: 59268c12202c12c9a80006b4,
  name: 'Vanu',
  maths_marks: 80,
  english_marks: 75,
  science_marks: 85,
  average: '' },
  { _id: 59268c15202c12c9a80006b5,
  name: 'Aruli',
  maths_marks: 78,
  english_marks: 85,
  science_marks: 80,
  average: '' },
  { _id: 59268c1a202c12c9a80006b6,
  name: 'Shayu',
  maths_marks: 80,
  english_marks: 76,
  science_marks: 65,
  average: '' },
  { _id: 59268c1d202c12c9a80006b8,
  name: 'Lucky',
  maths_marks: 66,
  english_marks: 90,
  marks_science: 45,
  average: '' },
  { _id: 59268cle202c12c9a80006b9,
  name: 'Gva',
  maths_marks: 71,
  english_marks: 75,
  science_marks: 56,
  average: '' },
  { _id: 5926c090e8918flabd075341,
  name: 'John',
  maths_marks: 87,
  science_marks: 23 },
```

6)

7)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://127.0.0.1:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var myquery = { science_marks: '45' };
7   var newvalues = { name: 'Lucky', maths_marks: '66', english_marks: '90', science_marks: '75'};
8   db.collection("studentmarks").update(myquery, newvalues, function(err, res) {
9     if (err) throw err;
10    console.log(res.result.nModified + " record updated");
11    db.close();
12  });
13 });
14
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_7.js
1 record updated
```

8)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   db.collection("studentmarks").find({"maths_marks":{$gt:50},"science_marks":{$gt:50},"english_marks":{$gt:50}}).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```

ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02\$ node ex2_8.js

```
[ { _id: 59268c0f202c12c9a80006b3,
  name: 'Mala',
  maths_marks: 51,
  english_marks: 53,
  science_marks: 72,
  average: '' },
  { _id: 59268c12202c12c9a80006b4,
  name: 'Vanu',
  maths_marks: 80,
  english_marks: 75,
  science_marks: 85,
  average: '' },
  { _id: 59268c15202c12c9a80006b5,
  name: 'Aruli',
  maths_marks: 78,
  english_marks: 85,
  science_marks: 80,
  average: '' },
  { _id: 59268c1a202c12c9a80006b6,
  name: 'Shayu',
  maths_marks: 80,
  english_marks: 76,
  science_marks: 65,
  average: '' },
  { _id: 59268c1e202c12c9a80006b9,
  name: 'Gva',
  maths_marks: 71,
  english_marks: 75,
  science_marks: 56,
  average: '' } ]
```

9)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   db.collection("studentmarks").find({"maths_marks":{$lt:50},"english_marks":{$gt:50}}).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_9.js
[ { _id: 59268c1f202c12c9a80006ba,
  name: 'Raam',
  maths_marks: 41,
  english_marks: 65,
  average: '' } ]
```

10)

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/inclass_ex$ node ex1_10.js
[ { Singer: 'Shankar mahadevan' },
  { Singer: 'Unnikrishnan' },
  { Singer: 'Hariharan' },
  { Singer: 'Hariharan' },
  { Singer: 'Swarnalatha' } ]
```

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   db.collection("studentmarks").find({"maths_marks":{$lt:40},"science_marks":{$lt:40}}).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```

11)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://127.0.0.1:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var myquery = { name:"Raam" };
7   var newvalues = { name:"Raam",maths_marks:41,english_marks:65 };
8   db.collection("studentmarks").update(myquery, newvalues, function(err, res) {
9     if (err) throw err;
10    console.log(res.result.nModified + " record updated");
11    db.close();
12  });
13 })
14
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_11.js
1 record updated
```

12)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var myobj = { name:"John",maths_marks:87,english_marks:23 };
7   db.collection("studentmarks").insertOne(myobj, function(err, res) {
8     if (err) throw err;
9     console.log("1 record inserted");
10    db.close();
11  });
12 })
13
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_12.js
1 record inserted
```

13)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://127.0.0.1:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var myquery = { name:"John" };
7   var newvalues = { name:"John",maths_marks:87,science_marks:23 };
8   db.collection("studentmarks").update(myquery, newvalues, function(err, res) {
9     if (err) throw err;
10    console.log(res.result.nModified + " record updated");
11    db.close();
12  });
13 })
14
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_13.js
1 record updated
```

14)

```
1 var http = require('http');
2 var MongoClient = require('mongodb').MongoClient;
3 var url = "mongodb://localhost:27017/student";
4
5 MongoClient.connect(url, function(err, db) {
6   if (err) throw err;
7   var myquery = { name:"Kumaran"};
8   db.collection("studentmarks").remove(myquery, function(err, obj) {
9     if (err) throw err;
10    console.log(obj.result.n + " document(s) deleted");
11    db.close();
12  });
13 });
14
```

```
ukistu06@ukipc06:~/Documents/ukiex/Nodejs/nodeex/nodeex02$ node ex2_14.js
1 document(s) deleted
```


15)

```
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   db.collection("studentmarks").find({$or:[{name:"Aruli"},{name:"Kala"}]}).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10  });
11 });
12
```

```
ukistu06@ukipc06:~/Documents/uklex/Nodejs/nodeex/nodeex02$ node ex2_15.js
[ { _id: 59268c15202c12c9a80006b5, name: 'Aruli',
  maths_marks: 78,
  science_marks: 80 },
  { _id: 59268dd7202c12c9a80006bb, name: 'Kala',
  maths_marks: 32,
  science_marks: 53 },
  { _id: 5937e22a01ce8e1e58da6a59, name: 'Kala',
  maths_marks: '32',
  science_marks: '53' },
  { _id: 5937e22a01ce8e1e58da6a5a, name: 'Aruli',
  maths_marks: '78',
  science_marks: '80' } ]
```