

1) Create a Database called student

```
qu11.js x
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
```

```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu11.js
(node:11850) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
Database created!
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$
```

2) Create a collection called studentmarks

```
qu12.js x
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 dbo = db.db("student");
7   dbo.createCollection("studentmarks", function(err, res) {
8     if (err) throw err;
9     console.log("Collection created!");
10    db.close();
11  });
12 });
13
```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu11.js
(node:11850) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
Database created!
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$

```

3) Create the documents listed in above table.

```

qu13.js
3
4 MongoClient.connect(url, function(err, db) {
5   if (err) throw err;
6   var dbo = db.db("student");
7   var myobj = [
8     {
9       name: "Mala",maths_marks:45 ,english_marks:53,science_marks: 72
10    },
11    {
12      name: "Vanu",maths_marks: 80,english_marks: 75,science_marks: 85
13    },
14    {
15      name: "Kala",maths_marks: 32,english_marks: 46,science_marks: 53
16    },
17    {
18      name: "Aruli",maths_marks: 78,english_marks: 85,science_marks: 80
19    },
20    {
21      name: "Shayu",maths_marks: 80,english_marks: 76,science_marks: 65
22    },
23    {
24      name: "Kumaran",maths_marks: 32,english_marks: 73,science_marks: 84
25    },
26    {
27      name : "Lucky",maths_marks: 66,english_marks: 90, science_marks : 45
28    },
29    {
30      name : "Gva",maths_marks : 71,english_marks : 75,science_marks : 56
31    },
32    {
33      name: "Raam",maths_marks: 41,english_marks: 65,science_marks: 88
34    }
35  ];
36  };
37  dbo.collection("studentmarks").insertMany(myobj, function(err, res) {
38    if (err) throw err;
39    console.log("Number of documents inserted: " + res.insertedCount);
40    db.close();
41  });
42  });
43
js mongodb/qu13.js 43:1

```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu13.js
(node:12924) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
Number of documents inserted: 9
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$

```

4) Increase the maths marks of Mala by 6 marks

```
qu14.js x
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3 MongoClient.connect(url, function(err, db) {
4   if (err) throw err;
5   var dbo = db.db("student");
6   var myquery = { name: "Mala" };
7   var newvalues = { $inc: { maths_marks: 6 } };
8   dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
9     if (err) throw err;
10    console.log("1 document updated");
11    db.close();
12  });
13 });
14
```

```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu14.js
(node:13271) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
1 document updated
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$
```

5) List the names of students who got more than 50 marks in Maths Subject.

```
qu15.js x
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 dbo = db.db("student");
7   dbo.collection("studentmarks").find({ maths_marks: { $gt: 50 } }).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13
```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu15.js
(node:13609) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
[ { _id: 5c3eb7b3581db2f654ce1403,
  name: 'Mala',
  maths_marks: 62,
  english_marks: 53,
  science_marks: 72,
  average: 1 },
  { _id: 5c3eb7fd581db2f654ce1404,
  name: 'Vanu',
  maths_marks: 80,
  english_marks: 75,
  science_marks: 85,
  average: 1 },
  { _id: 5c3eb943581db2f654ce1408,
  name: 'Shayu',
  maths_marks: 80,
  english_marks: 76,
  science_marks: 65,
  average: 1 },
  { _id: 5c3eb98b581db2f654ce140a,
  name: 'Lucky',

```

6) Add a new column(field) for Average for all students

```

qu15.js  x  qu16.js  x
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 dbo = db.db("student");
7    var myquery = {};
8    var newvalues = {$set: {Average: ""}};
9    dbo.collection("studentmarks").updateMany(myquery, newvalues, function(err, res) {
10     if (err) throw err;
11     console.log("Average inputed");
12     db.close();
13   });
14 });
15

```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu16.js
(node:13976) DeprecationWarning: current URL string parser is deprecated, and wi
ll be removed in a future version. To use the new parser, pass option { useNewUr
lParser: true } to MongoClient.connect.
Average inputed
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$

```

7) Update Marks\_Science=75 to Lucky .

```
qu17.js x
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 dbo = db.db("student");
7   var myquery = { name: "Lucky" };
8   var newvalues = { $set: {science_marks:75 } };
9   dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
10     if (err) throw err;
11     console.log(" updated");
12     db.close();
13   });
14 });
15
```

```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu17.js
(node:14342) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
updated
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$
```

8) List the names who got more than 50 marks in all subjects.

```
qu17.js x qu18.js x
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 dbo = db.db("student");
7   dbo.collection("studentmarks").find({maths_marks:{$gt:50},english_marks:{$gt:50}}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13
```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu18.js
(node:14662) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: 5c3eb7b3581db2f654ce1403,
  name: 'Mala',
  maths_marks: 62,
  english_marks: 53,
  science_marks: 72,
  average: 1,
  Average: '' },
  { _id: 5c3eb7fd581db2f654ce1404,
    name: 'Vanu',
    maths_marks: 80,
    english_marks: 75,
    science_marks: 85,
    average: 1,
    Average: '' },
  { _id: 5c3eb943581db2f654ce1408,
    name: 'Shayu',
    maths_marks: 80,
    english_marks: 76,
    science_marks: 65,
    average: 1,
    Average: '' } ]

```

9) List the names who got less than 50 marks in Maths subject and more than 50 marks in English

```

qu19.js
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 dbo = db.db("student");
7   dbo.collection("studentmarks").find({$and:[{maths_marks:{$lt:50},english_marks:{$gt:50}}]}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13

```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu19.js
(node:15034) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: 5c52c78a6843aa313e1f86ac,
  name: 'Mala',
  maths_marks: 45,
  english_marks: 53,
  science_marks: 72,
  Average: '' },
  { _id: 5c52c78a6843aa313e1f86b1,
  name: 'Kumaran',
  maths_marks: 32,
  english_marks: 73,
  science_marks: 84,
  Average: '' },
  { _id: 5c52c78a6843aa313e1f86b4,
  name: 'Raam',
  maths_marks: 41,
  english_marks: 65,
  science_marks: 88,
  Average: '' },
  { _id: 5c52c7e3f1060a327ca857c7,
  name: 'Mala',
  maths_marks: 35,
  english_marks: 78,
  science_marks: 90,
  Average: '' } ]

```

10) List the names who got less than 40 in both Maths and Science.

```

qu19.js  x  qu20.js  x
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 dbo = db.db("student");
7    dbo.collection("studentmarks").find({$and:[{maths_marks:{$lt:50},science_marks:{$lt:50}}]}).toArray(function(err, result) {
8      if (err) throw err;
9      console.log(result);
10     db.close();
11   });
12 });
13

```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu20.js
(node:15343) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[]
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$

```

11) Remove Science column/field for Raam

```

qu21.js
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 dbo = db.db("student");
7    var myquery = { name: "Raam" };
8    var newvalues = { $unset: {science_marks:75 } };
9    dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
10     if (err) throw err;
11     console.log("changed");
12     db.close();
13   });
14 });
15

```

```

ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu21.js
(node:4292) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
changed
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$

```

12) Update John's Math mark as 87 and English mark as 23, if john not available upsert.



```
qu21.js  X  qu22.js  X
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 dbo = db.db("student");
7    var myobj = [
8      { name: 'John', maths_marks:87, english_marks:23}
9    ];
10   dbo.collection("studentmarks").insertMany(myobj, function(err, res) {
11     if (err) throw err;
12     console.log("Number of documents changed: " + res.insertedCount);
13     db.close();
14   });
15 });
16
```

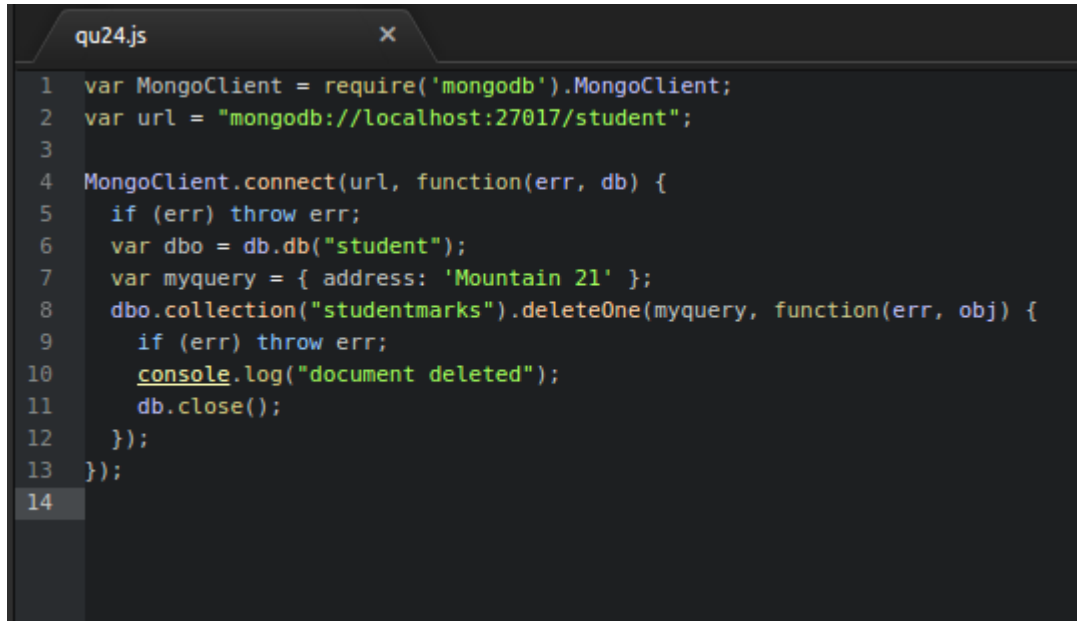
```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu22.js
(node:4988) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
Number of documents changed: 1
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$
```

13) Rename the english\_marks column/field for John to science\_marks

```
qu23.js  X
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 dbo = db.db("student");
7    var myquery = { name:"John" };
8    var newvalues = { $rename: {english_marks: "science_marks"} };
9    dbo.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
10     if (err) throw err;
11     console.log("document updated");
12     db.close();
13   });
14 });
15
```

```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu23.js
(node:5188) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
document updated
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$
```

14) Remove Kumaran's document from collection



```
qu24.js
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 dbo = db.db("student");
7   var myquery = { address: 'Mountain 21' };
8   dbo.collection("studentmarks").deleteOne(myquery, function(err, obj) {
9     if (err) throw err;
10    console.log("document deleted");
11    db.close();
12  });
13 });
14
```

```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu24.js
(node:5327) DeprecationWarning: current URL string parser is deprecated, and will
be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
document deleted
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$
```

15) Find Kala's or Aruli's math\_marks and science\_marks

```
qu24.js  x  qu25.js  x
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 dbo = db.db("student");
7   dbo.collection("studentmarks").find({$or:[{name:"Aruli"},{name: "Kala"}]}).toArray(function(err, result) {
8     if (err) throw err;
9     console.log(result);
10    db.close();
11  });
12 });
13
```

```
ukistu04@ukipc04:~/Documents/uki4/programming/Nodejs mongodb$ node qu25.js
(node:5469) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrlParser: true } to MongoClient.connect.
[ { _id: 5c3eb83f581db2f654ce1405,
  name: 'Kala',
  maths_marks: 32,
  english_marks: 46,
  science_marks: 53,
  average: 1,
  Average: '' },
  { _id: 5c3ebb18581db2f654ce140d,
  name: 'Aruli',
  maths_marks: 78,
  english_marks: 85,
  science_marks: 80,
  average: 1,
  Average: '' },
  { _id: 5c52c78a6843aa313e1f86ae,
  name: 'Kala',
  maths_marks: 32,
  english_marks: 46,
  science_marks: 53,
  Average: '' },
```