1) Create a Database called student

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_1.js
Database created!
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$
```

2) Create a collection called studentmarks

```
qu_1.js qu_2.js

var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    db.createCollection("studentmarks", function(err, res) {
        if (err) throw err;
        console.log("Table created!");
        db.close();
    });
}

}

}

}

}
```

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_2.js
Table created!
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$
```

3) Create the documents listed in above table.

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_3.js
Number of records inserted: 9
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$
```

4) Increase the maths marks of Mala by 6 marks

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_4.js
1 record updated
ukistu12@ukipc12:~/Documents/uki_exercises/node.is/in_ex_2/qu2$
```

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

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_5
[ { _id: 5937cc0c54b63a22cb486649,
    name: 'Mala',
    maths_marks: '51'
    english_marks: '53',
science_marks: '72' },
  { _id: 5937cc0c54b63a22cb48664a,
    name: 'Vanu',
maths_marks: '80'
    english_marks: '75',
science_marks: '85' },
  { _id: 5937cc0c54b63a22cb48664c,
    name: 'Aruli'
    maths_marks: '78'
    english_marks: '85',
science_marks: '80' },
  { _id: 5937cc0c54b63a22cb48664d,
    name: 'Shayu',
maths_marks: '80',
    english_marks: '76'
    science_marks: '65' },
  { _id: 5937cc0c54b63a22cb48664f,
    name: 'Lucky',
maths_marks: '66'
    english_marks: '90', science_marks: '75' },
  { _id: 5937cc0c54b63a22cb486650,
    name: 'Gva',
    maths_marks: '71'
    english_marks: '75',
    science marks: '56' } ]
```

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

7) Update Marks_Science=75 to Lucky.

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_7.js
1 record updated
ukistu12@ukipc12:~/Documents/uki exercises/node.js/in_ex_2/qu2$
```

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

```
ar MongoClient = require('mongodb').MongoClient;
ar url = "mongodb://localhost:27017/student";

angoClient.connect(url, function(err, db) {
   if (err) throw err;
   idb.collection("studentmarks").find({"maths_marks":{$gt:'50'},"english_marks":{$gt:'50'},"science_marks":{$gt:'50'}}).toArray(function(err, res if (err) throw err;
   console.log(result);
   db.close();
   });
};
};
```

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

```
qu_8,js qu_9,js

var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    db.collection("studentmarks").find({"maths_marks":{$lt:'50'},"english_marks":{$gt:'$0'}}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
};
});
```

```
kistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_9.js
{    _id: 5937cc0c54b63a22cb48664e,
        name: 'Kumaran',
        maths_marks: '32',
        english_marks: '73',
        science_marks: '84' },
{    _id: 5937cc0c54b63a22cb486651,
        name: 'Raam',
        maths_marks: '41',
        english_marks: '65',
        science_marks: '88' } ]
```

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

```
qu_10.js

1  var MongoClient = require('mongodb').MongoClient;
2  var url = "mongodb://localhost:27017/student";

3  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 });
```

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_10.js
[]
ukistu12@ukipc12:~/Documents/uki_exercises/node_is/in_ex_2/qu2$
```

11) Remove Science column/field for Raam

```
qu_10.js qu_11.js qu_9.js

var MongoClient = require('mongodb').MongoClient;

var url = "mongodb://127.0.0.1:27017/student";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var myquery = { name:"Raam" };
   var newvalues = { name:"Raam",maths_marks:'41',english_marks:'65' };
   db.collection("studentmarks").update(myquery, newvalues, function(err, res) {
      if (err) throw err;
      console.log(res.result.nModified + " record updated");
      db.close();
   });
})
```

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_11.js
1 record updated
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$
```

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

```
qu_10.js qu_12.js qu
1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";
3
4 MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var myobj = { name:'John',maths_marks:'87',english_marks:'23' };
    db.collection("studentmarks").insertOne(myobj, function(err, res) {
        if (err) throw err;
        console.log("l record inserted");
        db.close();
    });
2 })
```

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_12.js
1 record inserted
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$
```

13) Rename the english_marks column/field for John to science_marks

```
qu_10.js qu_6.js qu_13.js

var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://127.0.0.1:27017/student";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var myquery = { name:'John' };
   var newvalues = { name:'John', maths_marks:'87', science_marks:'23' };
   db.collection("studentmarks").update(myquery, newvalues, function(err, res) {
     if (err) throw err;
     console.log(res.result.nModified + " record updated");
     db.close();
   });
}

4
```

```
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_13.js
1 record updated
ukistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$
```

14) Remove Kumaran's document from collection

```
qu_10.js qu_14.js

var http = require('http');
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var myquery = { name:'Kumaran'};
   db.collection("studentmarks").remove(myquery, function(err, obj) {
    if (err) throw err;
   console.log(obj.result.n + " document(s) deleted");
   db.close();
});
});
```

```
ı<mark>kistu12@ukipc12:~/Documents/uki_exercises/node.js/in_ex_2/qu2$ node qu_14.j</mark>
L document(s) deleted
```

15) Find Kala's or Aruli's math_marks and science_marks

```
qu_10.js qu_14.js qu_15.js

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb://localhost:27017/student";

3 MongoClient.connect(url, function(err, db) {
5 if (err) throw err;
6 db.collection("studentmarks").find({$or:[{name:'Aruli'},{name:'Kala'}]},{name:1,maths_marks:1,science_marks:1}).toArray(function(err, result));
7 if (err) throw err;
8 console.log(result);
9 db.close();
9 });
10 });
11 });
```