1) Create a Database called student

```
var MongoClient = require('mongodb').MongoClient;
//Create a database named "student":
var url = "mongodb://localhost:27017/student";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   console.log("Database created!");
   db.close();
});
```

2) Create a collection called studentmarks

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

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

});
```

3) Create the documents listed in above table.

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/student";
MongoClient.connect(url, function(err, db) {
  var myobj = [
    { name: 'Mala', maths marks: 45, english marks: 53, science marks: 72},
    { name: 'Vanu', maths marks: 80, english marks: 75, science marks: 85},
    { name: 'Kala', maths marks: 32, english marks: 46, science marks: 53},
    { name: 'Aruli', maths marks: 78, english marks: 85, science marks: 80},
    { name: 'Shayu', maths marks: 80, english marks: 76, science marks: 65},
   { name: 'Kumaran', maths marks: 32, english marks: 73, science marks: 84},
    { name: 'Lucky', maths marks: 66, english marks: 90, science marks: 45},
    { name: 'Gva', maths marks: 71, english marks: 75, science marks: 56},
    { name: 'Raam', maths marks: 41, english marks: 65, science marks: 88},
  var dbase = db.db("student");
  dbase.collection("studentmarks").insertMany(myobj, function(err, res) {
    if (err) throw err;
    console.log("Number of documents inserted: " + res.insertedCount);
   db.close();
```

## 4) Increase the maths marks of Mala by 6 marks

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;

   var myquery = { name: 'Mala' };
   var newvalues = {$inc: {maths_marks: 6} };

var dbase = db.db("student");
   dbase.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
   if (err) throw err;
   console.log("l document updated");
   db.close();
});
});
});
```

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

```
var MongoClient = require('nongodb').MongoClient;

var will = "mongodb://localhost:27017/student';

MongoClient.connect(url, function(err, db) {
    if (err) throw err;

    var dbase = db.db("student");
    dbase.collection('studentmarks").find({maths_marks:{$gt: 50}}, {_id: false, name: true, maths_marks: false, english_marks: false, science_marks: false }).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
};
};
```

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

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbase = db.db("student");
   var myquery = {};
   var newvalues = {$set: {Averge: ""} };
   dbase.collection("studentmarks").updateMany(myquery, newvalues, function(err, res) {
      if (err) throw err;
      console.log(res.result.nModified + " document(s) updated");
   db.close();
   });
});
```

## 7) Update Marks\_Science=75 to Lucky

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbase = db.db("student");
    var myquery = {name: 'Lucky'};
    var newvalues = {$set: {science_marks: 75} };
    dbase.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log(res.result.nModified + " document(s) updated");
        db.close();
    });
});
});
```

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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;

//Exclude the _id field from the result:
    var dbase = db.db("student");

dbase.collection("studentmarks").find({maths_marks:{$gt: 50},science_marks:{$gt: 50},english_marks:{$gt: 50}}, { _id: false, name: true}).toArray(function(err, result) {
    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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;

//Exclude the _id field from the result:

    var dbase = db.db("student");

dbase.collection("studentmarks").find({maths_marks:{$lt: 50}},english_marks:{$gt: 50}}, { _id: false, name: true}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
});
});
```

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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;

    //Exclude the _id field from the result:

    var dbase = db.db("student");
    dbase.collection("studentmarks").find({maths_marks:{$\t 40}}, science_marks:{$\t 40}}, { _id: false, name: true}).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
    });
}
```

11) Remove Science column/field for Raam

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbase = db.db("student");
    var myquery = { name: 'Raam' };
    var newvalues = { $unset:{science_marks: 88} };
    dbase.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("1 document updated");
        db.close();
    });
};
};
```

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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbase = db.db("student");
    var myobj = { name: 'Jhon', maths_marks: 87, english_marks: 23 };

dbase.collection("studentmarks").insertOne(myobj, function(err, res) {
    if (err) throw err;
    console.log("l document inserted");
    db.close();
});

});
```

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

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;

var myquery = { name: 'Jhon' };
   var newvalues = {$rename: {english_marks: "science_marks"} };

var dbase = db.db("student");
   dbase.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
    if (err) throw err;
      console.log("1 document updated");
    db.close();
   });
});
```

14) Remove Kumaran's document from collection

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbase = db.db("student");

var myquery = { name: 'Kumaran' };
   dbase.collection("studentmarks").deleteOne(myquery, function(err, obj) {
     if (err) throw err;
        console.log("1 document deleted");
     db.close();
   });
};
```

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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var ram = db.db("student");
    ram.collection("studentmarks").find({$or:[{name:"Aruli"},{name:"Kala"}]},
    {maths_marks: true, science_marks: true}).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
    });
});
```