mongodb ex2 with the mongoclient object you just created in Node.js.

1) Create a Database called student

```
var MongoClient = require('mongodb').MongoClient;
//Create a database named "mydb";
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 student marks

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var uki = db.db("student");
   uki.createCollection("student_marks", 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/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myobj = [
        { name: 'Mala', maths_marks: 45, english_marks: 53, science_marks: 72},
        { name: 'Venu', maths_marks: 80, english_marks: 75, science_marks: 85},
        { name: 'Venu', 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: 'Lucky', maths_marks: 32, english_marks: 73, science_marks: 84},
        { name: 'Gva', maths_marks: 66, english_marks: 73, 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}

// dbo.collection("student_marks").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/";

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var dbo = db.db("student");
   var myquery = {name: "Mala"}
   var newvalues = {$inc: {maths_marks: 6}};
   dbo.collection("student_marks").updatetOne(myquery, newvalues, function(err, res) {
      if (err) throw err;
      console.log("1 document updated");
   db.close();
   });
}
```

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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    dbo.collection("student_marks").find({maths_marks: {$gt :50}, {name: true, _id: 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/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = {}
    var newvalues = {$set: {Average: ""}};
    dbo.collection("student_marks").updatetMany(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/";

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

    var myquery = {}
    var newvalues = {$sect: {science_marks: 75}};
    dbo.collection("student_marks").updatetMany(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("1 document updated");
        db.close();
    });
};
```

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

```
var MonpoClient = require('songadb', MongoClient;

var url = "mongodb://localhost:27017/*;

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

    var db = db.db('student");
    dbb.collection('student marks'), find({maths_marks: ($gt :50), english_marks: ($gt :50), science_marks: ($gt :50), {name: true, _id: false}}).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 MongoCtient = require('mongodb').MongoCtient;
var url = "mongodb://localhost:27017/*;

MongoCtient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    dbo.collection("student marks").find({maths_marks: {$\frac{1}{2}$}}, english_marks: {$\frac{1}{2}$}, fanme: true, _id: false}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.cose();
    });
};
```

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

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

MongoClient.connect(unt, function(err, db) {
   if (err) throw err;
   var dbo = db.db('student');

   dbo.collection('student marks').find({maths_marks: {$lt :4}}, science_marks: {$lt :40}, {name: true, _id: false}}).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/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = {name: 'Raam'}
    var newvalues = {$unset: {science_marks: 75}};
    dbo.collection("student_marks").updatetMany(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/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myobj = { name: 'Jhon', maths_marks: 87, english_marks: 27}
    dbo.collection("student_marks").insertOne(myobj, function(err, res) {
        if (err) throw err;
        console.log("1 documents 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/";

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = {name: 'Jhon'}
    var newvalues = {$rename: {english_marks : "science_marks"}};
    dbo.collection("student_marks").updateOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("l document updated");
        db.close();
    }
};
```

14) Remove Kumaran's document from collection

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db,db("student");
    var myquery = {name: 'Kumaran'}
    dob.collection('student marks').deleteOne(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log("l document deleted");
        db.close();
    }
}
// Console.log("l document deleted");
// Console.log("l document dele
```

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

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db('student");
    dbo.collection('student_marks").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();
    }
}    db.close();
};
```