NODE JS – MONGO DB 2

1. Create Database

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

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

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 1.js
Database created!
ukistu07@ukipc07:~/Desktop/mongo2$
```

2. Create collection

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var uki2 = db.db("student");
   uki2.createCollection("studentmarks", function(err, res) {
     if (err) throw err;
     console.log("Collection created!");
     db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 2.js
Collection created!
ukistu07@ukipc07:~/Desktop/mongo2$
```

3.Include the Documents

```
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");
    var songs = [
        { 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: 'Shayu', maths_marks:78 , english_marks:76, science_marks:65},
        { name: 'Kumaran', maths_marks:32, english_marks:73, science_marks:84},
        { name: 'Lucky', maths_marks:66 , english_marks:73, science_marks:45},
        { name: 'Goa', maths_marks:71 , english_marks:75, science_marks:56},
        { name: 'Raam', maths_marks:41 , english_marks:65, science_marks:88}

];
    uki.collection("studentmarks").insertMany(songs, function(err, res) {
        if (err) throw err;
        console.log("Number of documents inserted: " + res.insertedCount);
        db.close();
    });
}
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 3.js
Number of documents inserted: 9
ukistu07@ukipc07:~/Desktop/mongo2$
```

4. Increment The marks of Mala

```
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 uki = db.db("student");
   var myquery = { name: "Mala" };
   var newvalues = {$inc:{maths_marks:6}};
   uki.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
    if (err) throw err;
    console.log("1 document updated");
   db.close();
   });
});
}
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 4.js
1 document updated
ukistu07@ukipc07:~/Desktop/mongo2$
```

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var uki2 = db.db("student");
   uki2.collection("studentmarks").find({maths_marks:{$gt:50}}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
   });
});
```

```
uktstuo/@uktpco/:~/Desktop/Ploligoz$
ukistu07@ukipc07:~/Desktop/mongo2$ node 5.js
[ { _id: 5a5874bd6969070b205cfd76,
   name: 'Mala',
   maths_marks: 57,
   english_marks: 53,
   science_marks: 72 },
 { id: 5a5874bd6969070b205cfd77,
   name: 'Vanu',
   maths marks: 80,
   english marks: 75,
   science marks: 85 },
  { id: 5a5874bd6969070b205cfd79,
    name: 'Aruli'
   maths marks: 78,
   english_marks: 85,
    science marks: 80 },
  { id: 5a5874bd6969070b205cfd7a,
   name: 'Shayu',
   maths_marks: 80,
   english marks: 76,
   science_marks: 65 },
  { id: 5a5874bd6969070b205cfd7c.
   name: 'Lucky',
   maths_marks: 66,
    english_marks: 90,
    science marks: 45 },
  { id: 5a5874bd6969070b205cfd7d.
   name: 'Gva',
   maths_marks: 71,
   english marks: 75,
    science_marks: 56 } ]
ukistu07@ukipc07:~/Desktop/mongo2$
```

```
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 uki = db.db("student");
   var myquery = {};
   var newvalues = {$set:{Average: " "}};
   uki.collection("studentmarks").updateMany(myquery, newvalues, function(err, res) {
     if (err) throw err;
     console.log("Average Input");
     db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 4.js
Average Input
ukistu07@ukipc07:~/Desktop/mongo2$
```

```
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 uki = db.db("student");
   var myquery = {name : "Lucky"};
   var newvalues = {$set:{science_marks:75}};
   uki.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
    if (err) throw err;
   console.log("Updated");
   db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 4.js
Updated
ukistu07@ukipc07:~/Desktop/mongo2$
```

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var uki2 = db.db("student");
    uki2.collection("studentmarks").find({maths_marks:{$gt:50},english_marks:{$gt:50},english_marks:{$gt:50}}).toArray(function-if (err) throw err;
    console.log(result);
    db.close();
    });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 5.js
[ { id: 5a5874bd6969070b205cfd76.
    name: 'Mala',
    maths_marks: 57,
    english_marks: 53,
    science_marks: 72,
Average: ' ' },
  { _id: 5a5874bd6969070b205cfd77,
    name: 'Vanu',
    maths_marks: 80,
    english_marks: 75,
    science marks: 85,
    Average: ' ' },
  { _id: 5a5874bd6969070b205cfd79.
    name: 'Aruli'
    maths_marks: 78,
    english_marks: 85,
    science_marks: 80,
    Average: ' ' },
  { _id: 5a5874bd6969070b205cfd7a,
    name: 'Shayu',
    maths_marks: 80,
    english_marks: 76,
    science marks: 65,
  Average: ' ' },
{ _id: 5a5874bd6969070b205cfd7c,
    name: 'Lucky',
    maths_marks: 66,
    english marks: 90,
    science_marks: 75,
    Average: ' ' },
  { _id: 5a5874bd6969070b205cfd7d,
    name: 'Gva',
    maths_marks: 71,
    english_marks: 75,
    science_marks: 56,
Average: ' ' } ]
ukistu07@ukipc07:~/Desktop/mongo2$
```

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var uki2 = db.db("student");
   uki2.collection("studentmarks").find({$and:[{maths_marks:{$gt:50},english_marks:{$gt:50}}]}).toArray(function(err, result) ·
   if (err) throw err;
   console.log(result);
   db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 5.js
[ { _id: 5a5874bd6969070b205cfd76,
    name: 'Mala',
maths_marks: 57,
    english_marks: 53,
    science_marks: 72,
Average: ' ' },
  { _id: 5a5874bd6969070b205cfd77,
    name: 'Vanu',
    maths_marks: 80,
    english_marks: 75,
    science marks: 85,
    Average: ' ' },
  { _id: 5a5874bd6969070b205cfd79,
    name: 'Aruli'
    maths_marks: 78,
    english_marks: 85,
    science_marks: 80,
  Average: ' ' },
{ _id: 5a5874bd6969070b205cfd7a,
    name: 'Shayu',
    maths_marks: 80,
    english marks: 76,
    science_marks: 65,
    Average: ' ' }
  { _id: 5a5874bd6969070b205cfd7c,
    name: 'Lucky'
    maths_marks: 66,
    english_marks: 90,
    science_marks: 75,
    Average: ' ' },
  { _id: 5a5874bd6969070b205cfd7d,
    name: 'Gva',
    maths_marks: 71,
    english_marks: 75,
    science_marks: 56,
Average: ' ' } ]
ukistu07@ukipc07:~/Desktop/mongo2$
```

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var uki2 = db.db("student");
   uki2.collection("studentmarks").find({$and:[{maths_marks:{$lt:50},science_marks:{$lt:50}}]}).toArray(function(err, result) -
   if (err) throw err;
   console.log(result);
   db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 5.js
[]
ukistu07@ukipc07:~/Desktop/mongo2$
```

```
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 uki = db.db("student");
   var myquery = {name : "Raam"};
   var newvalues = {$unset:{science_marks:75}};
   uki.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
    if (err) throw err;
    console.log("Deleted");
    db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$
ukistu07@ukipc07:~/Desktop/mongo2$ node 4.js
Deleted
ukistu07@ukipc07:~/Desktop/mongo2$
```

```
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");
    var songs = [
        { name: 'John', maths_marks:87 , english_marks:23},
];

uki.collection("studentmarks").insertMany(songs, function(err, res) {
    if (err) throw err;
    console.log("Number of documents inserted: " + res.insertedCount);
    db.close();
    });
});
```

```
ukistu0/@ukipc0/:~

ukistu07@ukipc07:~/Desktop/mongo2$ node 3.js

Number of documents inserted: 1

ukistu07@ukipc07:~/Desktop/mongo2$
```

```
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 uki = db.db("student");
   var myquery = {name : "John"};
   var newvalues = {$rename:{english_marks: "science_marks"}};
   uki.collection("studentmarks").updateOne(myquery, newvalues, function(err, res) {
     if (err) throw err;
     console.log("updated");
     db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 4.js
updated
ukistu07@ukipc07:~/Desktop/mongo2$
```

```
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 uki = db.db("student");
   var myquery = {name : "Kumaran"};
   uki.collection("studentmarks").deleteOne(myquery, function(err, res) {
    if (err) throw err;
    console.log("deleted");
    db.close();
   });
});
```

```
ukistu07@ukipc07:~/Desktop/mongo2$ node 4.js
deleted
ukistu07@ukipc07:~/Desktop/mongo2$
```

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

MongoClient.connect(url, function(err, db) {
   if (err) throw err;
   var uk12 = db.db("student");

   uk12.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();
   });
});
```

```
[ { _id: 5a569123ec627d13d047fd63,
    name: 'Kala',
    maths_marks: 32,
    english_marks: 46,
    science_marks: 53,
    Average: '' },
    { _id: 5a569123ec627d13d047fd64,
        name: 'Aruli',
        maths_marks: 78,
        english_marks: 85,
        science_marks: 80,
        Average: '' } ]
```