Node.js Exercise

1 Create a MongoClient object, then specify a connection URL with the correct ip address and the name of the database you want to create.

1) Create a Database called music.

2) Create a collection called song details.

3) Create the above 5 song documents.

```
[nodemon] 1.11.0
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node insert.js`
(node:3261) DeprecationWarning: current URL string parser is deprecated, and will be removed in a future version. To use the new parser, pass option { useNewUrl Parser: true } to MongoClient.connect.
Number of documents inserted: 5
[nodemon] clean exit - waiting for changes before restart
```

```
createbys created created companies of created companies companies companies
```

4) List all documents created.

```
[nodemon] to restart at any time, enter `rs
[nodemon] watching: *.*
[nodemon] starting `node findall.js`
(node:3476) DeprecationWarning: current URL string parser is deprecated, an
l be removed in a future version. To use the new parser, pass option { useN
Parser: true } to MongoClient.connect.
[ { _id: 5c383c8ea2164ac1a0a57478, 
 'Song Name': 'Thaniye Thananthaniye',
    Film: 'Rhythm',
     'Music Director': 'A.R.Rahman',
    Singer: 'Shankar mahadevan' },
  { _id: 5c383db2a2164ac1a0a57479,
'Song Name': 'Evano Oruvan',
    Film: 'Alai Payuthey'
     'Music Director': 'A.R.Rahman',
    Singer: 'Swarnalatha' },
  { _id: 5c38441fa2164ac1a0a5747e, 
'Song Name': 'Maruvarththai Peshathe',
     Film: 'Ennai Nokki Pajum Thotta',
     'Music Director': 'Dhanush',
    Singer: 'Sidsriram' },
  { _id: 5c3848bba2164ac1a0a57482,
    SongName: 'Roja Poonthottam',
    Film: 'Kannukul Nilavu',
```

```
createdb.js createcollection.js insert.js findall.js findsome;

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

3  MongoClient.connect(url, function(err, db) {
5    if (err) throw err;
6    var dbo = db.db("music");
7    dbo.collection("songdetails").find({}).toArray(function(err, result) {
8    if (err) throw err;
9    console.log(result);
10    db.close();
1);
1};
1}
1};
13
```

5) List A.R.Rahman's songs.

```
nodemon] 1.11.0
nodemon] to restart at any time, enter `rs`
nodemon] watching: *.*
nodemon] starting `node findsome.js`
node:3693) DeprecationWarning: current URL string parser is deprecated, and wil
be removed in a future version. To use the new parser, pass option { useNewUrl
'arser: true } to MongoClient.connect.
]
nodemon] clean exit - waiting for changes before restart
nodemon] restarting due to changes...
nodemon] starting `node findsome.js`
node:3750) DeprecationWarning: current URL string parser is deprecated, and wil
be removed in a future version. To use the new parser, pass option { useNewUrl
'arser: true } to MongoClient.connect.
```

6) List A.R.Rahman's songs sung by Unnikrishnan.

```
[nodemon] 1.11.0
[nodemon] to restart at any time, enter `rs`
[nodemon] watching: *.*
[nodemon] starting `node unni.js`
(node:4371) DeprecationWarning: current URL string parser is deprecated, and wil l be removed in a future version. To use the new parser, pass option { useNewUrl Parser: true } to MongoClient.connect.
[]
[nodemon] clean exit - waiting for changes before restart
```

7) Delete the song which you don't like.

8) Add new song which is your favourite.

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("music");
    var myobj = { film: 'krish', music_director: 'A.R.Rahman', singer: 'chahon', song_name: 'then_vadikkum'};
    dbo.collection("songdetails").insertOne(myobj, function(err, res) {
        if (err) throw err;
        console.log("l document inserted");
        db.close();
    });
}

}

}

}

14
```

```
[ { _id: 5a55e7c1d7dfe4472de17a3c,
film: 'rhythm',
music_director: 'A.R.Rahman',
```

9) List Songs sung by Hariharan from Minsara kanavu film.

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

MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("music");
    dbo.collection("songdetails").find({singer: "hariharan", film: "dheena"},{_id: false, name: true}).toArray(function(err, result) {
        if (err) throw err;
        console.log(result);
        db.close();
    });
};
```

10)List out the singers' names in your document.

```
(node:15329) DeprecationMarning: 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. { ( di: ScS1b4c7899ca338f3edaa71, Sangane: 'Thaniye Thamanthaniye', Titis: 'MRythm', R. Bahdman', Stiger: Sangane: 'Sangane', Sangane', Sangane',
```

2. Complete mongodb ex1 and mongodb ex2 with the mongoclient object you just created in Node.is.

1) Create a Database called student

```
s — ~/Documents/Ukl-2/Coding2/mongo_nodejs/excercise2 — Atom

File Edit View Selection Find Packages Help

qustljs qus2/s qus3/s qus4/s qus5/s qus6/s qus7/s qus8/s qus9/s qus10/s qus11/s qus12/s qus13/s qus13/s qus14/s qus15/s

1 var MongoCitant = require* (mongodb//localhost; 279/7/student*);

3 var urt = "mongodbi//localhost; 279/7/student*);

5 MongoCitant.connect(urt., function(err., db) {
5 if (err) throw err;
7 console.log("patabase created!");
8 db.:close();
9 ));
10
```

2) Create a collection called student marks

```
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| qustijs | qus2js | qus3js | qus4js | qus5js | qus6js | qus6js | qus7js | qus8js | qus9js | qus10js | qus11js | qus12js | qus13js | qus14js | qus15js |
| 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");
| vui.createCollection("student_marks", function(err, res) {
| if (err) throw err;
| console.log("Collection created!");
| db.close();
| };
| };
| 2 });
```

3) Create the documents listed in above table.

4) Increase the maths marks of Mala by 6 marks

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

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

```
qus1js qus2js qus3js qus4js qus5js qus6js qus6js qus7js qus8js qus9js qus10js qus11js qus12js qus13js qus14js qus15js

1 var MongoClient = require('mongodb'), MongoClient;

2 var url = 'mongodb://localhost:27017/";

4 MongoClient.connect(url, function(err, db) {
    if (err) throw err;
    var myquery = {
        var newvalues = {sset: {Average: "}};
        dob.ocollection('student.marks').updatetMany(myquery, newvalues, function(err, res) {
        if (err) throw err;
        console.log(res.result.mModified + "document(s) updated");
        db.close();
        });
    });
    });
    });
    });
    /*
}
```

7) Update Marks_Science=75 to Lucky .

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

```
qustijs qus2js qus3js qus4js qus5js qus6js qus6js qus7js qus8js qus9js qus10js qus11js qus12js qus13js qus14js qus15js

1 var MongoClient = require('mongodb').MongoClient;
2 var url = "mongodb').MongoClient;
3
HongoClient.connect(url, function(err, db) {
1 if (err) throw err;
6 var dbo = db.do'('student');
1 dbo.collection('student marks'),find((maths_marks: {$gt :50}), english_marks: {$gt :50}, science_marks: {$gt :50}, (name: true, _id: false)}).toArray(function(err, result) {
3 if (err) throw err;
9 console.log(result);
10 db.close();
11 });
12 });
```

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



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

```
qustjs qus2js qus3js qus4js qus5js qus6js qus7js qus8js qus9js qus9js qus10js qus11js qus12js qus13js qus14js qus15js

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

2 var url = "mongodb://tocalhost:27017/";

3

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

4 dbo.collection("student_anks").find((maths_marks: {$tt :$\darkstyle{\theta}\)}), science_marks: ($tt :40), {name: true, _id: false}}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.colse();
}

5 };
};
};
}
```

11) Remove Science column/field for Raam.

```
Eile Edit View Selection Find Packages Help

qust|s qus2|s qus3|s qus4|s qus5|s qus6|s qus6|s qus7|s qus8|s qus9|s qus10|s qus11|s qus12|s qus13|s qus14|s qus15|s

1 var MongoClient = requiref (mongodb').MongoClient;
2 var urt = mongodbis/locathost:27817/";
3

4 MongoClient.connect(urt, function(err, db) {
5 if (err) throw err;
6 var dbo = db.db("student");
7 var myquery = (name: Raam) }
8 var mewalues = (sinset: {science_marks: 75});
9 dbo.collection("student_marks"), updatetMany(syquery, neuvalues, function(err, res) {
1 if (err) throw err;
1 console.log(") document updated");
1 db.close();
1 });
1 });
```

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

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

```
qustjs qus2js qus3js qus4js qus5js qus6js qus7js qus8js qus9js qus10js qus11js qus12js qus13js qus14js qus15js

1  var MongoCtient = require('mongodb').MongoCtient;
2  var url = 'mongodbt'/(localhost:27017'*;

3  MongoCient.connect(url, function(err, db) {
    if (err) throw err:
        var dbo = db.idf("student");
        var newvalues = ($rename: {english_marks: "science_marks"});
    dbo.collection("student_marks").updateOnne(myquery, newvalues, function(err, res) {
        if (err) throw err:
        console.log(") document updated");
        db.close();
    });
}
```

14) Remove Kumaran's document from collection

```
qus1js qus2js qus3js qus4js qus5js qus6js qus7js qus8js qus9js qus10js qus11js qus12js qus13js qus14js qus15js

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

2 var url = "mongodb://Localhost:27817/";

3 MongoCLient.connect(url, function(err, db) {
    if (err) throw err;
    var dbo = db.db("student");
    var myquery = (name: 'Kumaron')
    dbo.collection('student_marks').deleteOne(myquery, newValues, function(err, res) {
        if (err) throw err;
        dbo.collection('student_marks').deleteOne(myquery, newValues, function(err, res) {
        if (err) throw err;
        dbo.collection('student_marks').deleteOne(myquery, newValues, function(err, res) {
        if (err) throw err;
        dbo.collection('student_marks').deleteOne(myquery, newValues, function(err, res) {
        if (err) throw err;
        dbo.collection('student_marks').deleteOne(myquery, newValues, function(err, res) {
        if (err) throw err;
        if
```

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

```
qusljs qus2js qus3js qus4js qus5js qus6js qus7js qus8js qus9js qus10js qus11js qus12js qus13js qus14js qus15j6

1 var MongoCtient = require('mongodb').MongoCtient;
2 var url = 'mongodb://Localhost:2701/7';

3 MangoCtient.connect(ri, function(err, db) {
5     if (err) throw err;
6     var dbo = db.db('student');
7     ddb.collection('student_marks').find({$or:[{name: 'Aruli'},{name: 'kala'}]}), {maths_marks: true, science_marks: true}).toArray(function(err, result) {
8         if (err) throw err;
9         console.log(result);
10     db.close();
11     });
12     });
13
```