Mongodb exercise using node.js

1) Create a Database called music.

```
1   var MongoClient = require('mongodb').MongoClient;
2   var url = "mongodb://localhost:27017/music";
3
4   MongoClient.connect(url, function(err, db) {
5     if (err) throw err;
6     console.log("Database created!");
7     db.close();
8   });
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-1
Database created!
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$
```

2.Create a collection called songdetails.

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

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

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-2
Collection created!
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$
```

3.Create the above 5 song documents.

```javascript
1    var MongoClient = require('mongodb').MongoClient;
2    var url = "mongodb://localhost:27017/music";
3
4    MongoClient.connect(url, function(err, db) {
5      if (err) throw err;
6      var myobj = [
7      {Song_name:"thaniye_thananthaniye", flim:"rhythm", music_director:"A.R.Rahman", singer:"Shankar_madhavan"
8      {Song_name:"evano_oruvan", flim:"alaipauthe", music_director:"A.R.Rahman", singer:"Swarnalatha"},
9      {Song_name:"roja_poonthodam", flim:"kanukul_nilavu", music_director:"Illiyaraja", singer:"Unnikirishnan A
10     {Song_name:"venilave_venilave_vinaithandi", flim:"minsarakanvu", music_director:"A.R.Rahman", singer:"Har
11     {Song_name:"solamal_thoduselum_thendral", flim:"dheena", music_director:"Yuvan_shankar_raja", singer:"Har
12     ];
13     var ram = db.db("music")
14     ram.collection("songdetails").insertMany(myobj, function(err, res) {
15       if (err) throw err;
16       console.log("Number of documents inserted: " + res.insertedCount);
17       db.close();
18     });
19   });
20
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-3
Number of documents inserted: 5
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ █
```

```
> show collections
songdetails
> db.songdetails.find()
> db.songdetails.find()
{ "_id" : ObjectId("5a56320b8cb595128b9e0b62"), "Song_name" : "thaniye_thananthaniye", "flim" : "rhythm", "music_director" : "A.R.Rahman", "singer" : "Shankar_madhavan" }
{ "_id" : ObjectId("5a56320b8cb595128b9e0b63"), "Song_name" : "evano_oruvan", "flim" : "alaipauthe", "music_director" : "A.R.Rahman", "singer" : "Swarnalatha" }
{ "_id" : ObjectId("5a56320b8cb595128b9e0b64"), "Song_name" : "roja_poonthodam", "flim" : "kanukul_nilavu", "music_director" : "Illiyaraja", "singer" : "Unnikirishnan Anuradha_sriram" }
{ "_id" : ObjectId("5a56320b8cb595128b9e0b65"), "Song_name" : "venilave_venilave_vinaithandi", "flim" : "minsarakanvu", "music_director" : "A.R.Rahman", "singer" : "Hariharan, Sadhana Sargam" }
{ "_id" : ObjectId("5a56320b8cb595128b9e0b66"), "Song_name" : "solamal_thoduselum_thendral", "flim" : "dheena", "music_director" : "Yuvan_shankar_raja", "singer" : "Hariharan" }
> █
```

4.List all documents created.

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

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var ram = db.db("music");
  ram.collection("songdetails").find({}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-4
[ { _id: 5a56320b8cb595128b9e0b62,
    Song_name: 'thaniye_thananthaniye',
    flim: 'rhythm',
    music_director: 'A.R.Rahman',
    singer: 'Shankar_madhavan' },
  { _id: 5a56320b8cb595128b9e0b63,
    Song_name: 'evano_oruvan',
    flim: 'alaipauthe',
    music_director: 'A.R.Rahman',
    singer: 'Swarnalatha' },
  { _id: 5a56320b8cb595128b9e0b64,
    Song_name: 'roja_poonthodam',
    flim: 'kanukul_nilavu',
    music_director: 'Illiyaraja',
    singer: 'Unnikirishnan Anuradha_sriram' },
  { _id: 5a56320b8cb595128b9e0b65,
    Song_name: 'venilave_venilave_vinaithandi',
    flim: 'minsarakanvu',
    music_director: 'A.R.Rahman',
    singer: 'Hariharan, Sadhana Sargam' },
  { _id: 5a56320b8cb595128b9e0b66,
    Song_name: 'solamal_thoduselum_thendral',
    flim: 'dheena',
    music_director: 'Yuvan_shankar_raja',
    singer: 'Hariharan' } ]
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$
```

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

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

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var ram = db.db("music");
  //Exclude the _id field from the result:
  ram.collection("songdetails").find({music_director:"A.R.Rahman"}, { _id: false, name: true}).toArray(func
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-5
[ { _id: 5a56320b8cb595128b9e0b62,
    Song_name: 'thaniye_thananthaniye',
    flim: 'rhythm',
    music_director: 'A.R.Rahman',
    singer: 'Shankar_madhavan' },
  { _id: 5a56320b8cb595128b9e0b63,
    Song_name: 'evano_oruvan',
    flim: 'alaipauthe',
    music_director: 'A.R.Rahman',
    singer: 'Swarnalatha' },
  { _id: 5a56320b8cb595128b9e0b65,
    Song_name: 'venilave_venilave_vinaithandi',
    flim: 'minsarakanvu',
    music_director: 'A.R.Rahman',
    singer: 'Hariharan, Sadhana Sargam' } ]
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ 
```

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

```
1   var MongoClient = require('mongodb').MongoClient;
2   var url = "mongodb://localhost:27017/music";
3
4   MongoClient.connect(url, function(err, db) {
5     if (err) throw err;
6     var ram = db.db("music");
7     //Exclude the _id field from the result:
8     ram.collection("songdetails").find({music_director:"A.R.Rahman", singer:"Unnikirishnan"},
9       { _id: false, name: true}).toArray(function(err, result) {
10      if (err) throw err;
11      console.log(result);
12      db.close();
13    });
14  });
15
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-6
[]
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ 
```

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

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

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var ram = db.db("music");
  var myquery = { Song_name:"roja_poonthodam" };
  ram.collection("songdetails").deleteOne(myquery, function(err, obj) {
    if (err) throw err;
    console.log("1 document deleted");
    db.close();
  });
});
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-7
1 document deleted
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ 
```

8. Add new song which is your favourite.

```
1   ar MongoClient = require('mongodb').MongoClient;
2   ar url = "mongodb://localhost:27017/music";
3
4   ongoClient.connect(url, function(err, db) {
5    if (err) throw err;
6    var ram = db.db("music");
7    var myobj = {Song_name:"maacho_enacho", flim:"mersal", music_director:"A.R.Rahman", singer:"Sid_Sriram"};
8    ram.collection("songdetails").insertOne(myobj, function(err, res) {
9      if (err) throw err;
10     console.log("1 document inserted");
11     db.close();
12   });
13  );
14
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-8
1 document inserted
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$
```

9. List Songs sung by Hariharan from Dheena film.

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

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var ram = db.db("music");
  //Exclude the _id field from the result:
  ram.collection("songdetails").find({singer:"Hariharan", flim:"dheena"},
  { _id: false, name: true}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```

```
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$ node q-9
[ { _id: 5a56320b8cb595128b9e0b66,
    Song_name: 'solamal_thoduselum_thendral',
    flim: 'dheena',
    music_director: 'Yuvan_shankar_raja',
    singer: 'Hariharan' } ]
ukistu05@UKIPC05:~/Documents/uki2/coding/nodejs/Node js ex2$
```

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

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

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var ram = db.db("music");
  //Exclude the _id field from the result:
  ram.collection("songdetails").find({},
  {"singer": true, _id: false}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```