

Node.js + Mongo.db 01

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 });
9
```

```
ukistu14@ukipc14:~/Documents/UkiExcersices/NodeJS$ node ex1-1.js
Database created!
ukistu14@ukipc14:~/Documents/UkiExcersices/NodeJS$
```

2) Create a collection called songdetails .

```
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   db.createCollection("songdetails", function(err, res) {
7     if (err) throw err;
8     console.log("Table created!");
9     db.close();
10   });
11 });
12
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node ex1-2.js
Table created!
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```

3) Create the above 5 song documents.

```
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 insert = [
7     { songName: 'thaniye thannandhaniye', film: 'rhythm', musicDirector: 'AR Rahman', singer: 'shankar mahadhevan'},
8     { songName: 'evano oruvan', film: 'alaipayudhe', musicDirector: 'AR Rahman', singer: 'swarnalatha'},
9     { songName: 'Roja poondhottam', film: 'kannukkul nilavu', musicDirector: 'ilayaraja', singer: 'unni krishnan'},
10    { songName: 'vennilave vennilave', film: 'minsara kanavu', musicDirector: 'AR Rahman', singer: 'Hariharan'},
11    { songName: 'sollamal thottu sellum', film: 'Dheena', musicDirector: 'Yuvana shankar raja', singer: 'Hariharan'}
12  ];
13  db.collection("songdetails").insert(insert, function(err, res) {
14    if (err) throw err;
15    console.log("Number of records inserted: " + res.insertedCount);
16    db.close();
17  });
18 });
19 |
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node exi-3re.js
Number of records inserted: 5
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```

4) List all documents created.

```
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   db.collection("songdetails").find({}).toArray(function(err, result) {
7     if (err) throw err;
8     console.log(result);
9     db.close();
10   });
11 });
12
```

ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS\$ node ex1-3re.js

Number of records inserted: 5

ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS\$ node ex1-4.js

```
[ { _id: 5924127d6c6e7ea6eee9c0a8,
  Songname: 'Evano Oruvan',
  Film: 'Alaipaiuthey',
  MusicDirector: 'A.R.Rahmam',
  Singer: 'Swarnalatha' },
  { _id: 592412936c6e7ea6eee9c0a9,
  Songname: 'Roja Poonthodam',
  Film: 'Kannukul Nilavu',
  MusicDirector: 'Illaiyaraja',
  Singer: 'UniKrishnan,Anuratha Sriram' },
  { _id: 592412a86c6e7ea6eee9c0aa,
  Songname: 'Venilave venilave Vinaithadi',
  Film: 'Minsara Kanavu',
  MusicDirector: 'A.R.Rahmam',
  Singer: 'Hariharan, Sadhana Sargam' },
  { _id: 592412c66c6e7ea6eee9c0ab,
  Songname: 'Sollamal thottuch chellum thendral',
  Film: 'Dheena',
  MusicDirector: 'Yuvan Shankae Raja',
  Singer: 'Hariharan' },
```

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

```
1 var http = require('http');
2 var MongoClient = require('mongodb').MongoClient;
3 var url = "mongodb://localhost:27017/music";
4
5 MongoClient.connect(url, function(err, db) {
6   if (err) throw err;
7   var query = { musicDirector: 'AR Rahman' };
8   db.collection("songdetails").find(query).toArray(function(err, result) {
9     if (err) throw err;
10    console.log(result);
11    db.close();
12  });
13 });
14 |
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node ex1-5.js
[ { _id: 5934da9b5c231d1140d6eee3,
  songName: 'thaniye thannandhaniye',
  film: 'rhythm',
  musicDirector: 'AR Rahman',
  singer: 'shankar mahadhevan' },
  { _id: 5934da9b5c231d1140d6eee4,
  songName: 'evano oruvan',
  film: 'alaipayudhe',
  musicDirector: 'AR Rahman',
  singer: 'swarnalatha' },
  { _id: 5934da9b5c231d1140d6eee6,
  songName: 'vennilave vennilave',
  film: 'minsara kanavu',
  musicDirector: 'AR Rahman',
  singer: 'Hariharan' } ]
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```

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

```
1  var http = require('http');
2  var MongoClient = require('mongodb').MongoClient;
3  var url = "mongodb://localhost:27017/music";
4
5  MongoClient.connect(url, function(err, db) {
6    if (err) throw err;
7    var query = { musicDirector: 'AR Rahman', singer: 'unni krishnan' };
8    db.collection("songdetails").find(query).toArray(function(err, result) {
9      if (err) throw err;
10     console.log(result);
11     db.close();
12   });
13 });
14 |
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node ex1-6.js
[]
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```

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

```
1 var http = require('http');
2 var MongoClient = require('mongodb').MongoClient;
3 var url = "mongodb://localhost:27017/music";
4
5 MongoClient.connect(url, function(err, db) {
6   if (err) throw err;
7   var myquery = { songName: 'vennilave vennilave' };
8   db.collection("songdetails").remove(myquery, function(err, obj) {
9     if (err) throw err;
10    console.log(obj.result.n + " document(s) deleted");
11    db.close();
12  });
13 });
14 |
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node ex1-7.js
1 document(s) deleted
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```

8) Add new song which is your favourite.

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

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var myobj = { songName: 'Tum ku ho', film: 'Aashique 2', musicDirector: 'A S T', singer: 'Ajith Singh' };
  db.collection("songdetails").insertOne(myobj, function(err, res) {
    if (err) throw err;
    console.log("1 record inserted");
    db.close();
  });
});
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node ex1-8.js
1 record inserted
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```


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

```
1  var http = require('http');
2  var MongoClient = require('mongodb').MongoClient;
3  var url = "mongodb://localhost:27017/music";
4
5  MongoClient.connect(url, function(err, db) {
6    if (err) throw err;
7    var query = { film: 'minsara kanavu', singer: 'Hariharan' };
8    db.collection("songdetails").find(query).toArray(function(err, result) {
9      if (err) throw err;
10     console.log(result);
11     db.close();
12   });
13 });
14
```

```
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$ node ex1-9.js
[ { _id: 5934e32997e048168ee4c57a,
  songName: 'vennilave vennilave',
  film: 'minsara kanavu',
  musicDirector: 'AR Rahman',
  singer: 'Hariharan' } ]
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```

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

```
ex2-15.js | ex1-10.js |
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    db.collection("songdetails").find({}, {singer:1, _id:0}).toArray(function(err, result) {
7      if (err) throw err;
8      console.log(result);
9      db.close();
10   });
11 });
12 |
```

```
{ singer: 'shankar mahadhevan' },
{ singer: 'swarnalatha' },
{ singer: 'unni krishnan' },
{ singer: 'Hariharan' },
{ singer: 'Ajith Singh' },
{ singer: 'Hariharan' } ]
ukistu14@ukipc14:~/Documents/UkiExcercises/NodeJS$
```