

MongoDB In-class Exercise 1

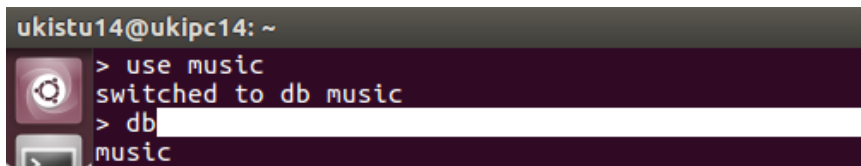
1) Create a Database called music.

>use music

switched to db music

> db

music

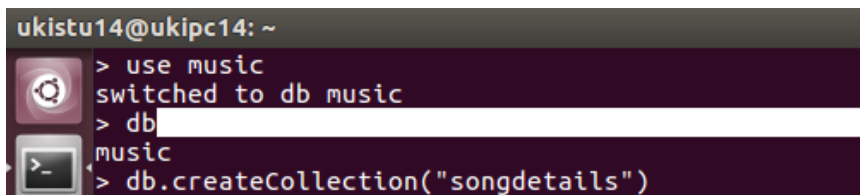


```
ukistu14@ukipc14: ~  
> use music  
switched to db music  
> db  
music
```

2) Create a collection called songdetails .

> db.createCollection("songdetails")

{ "ok" : 1 }



```
ukistu14@ukipc14: ~  
> use music  
switched to db music  
> db  
music  
> db.createCollection("songdetails")
```


3)Create the above 5 song documents.

> db.songdetails.insert({"Songname":"Thaniye
Thannanthaneyeye","Film":"Rhythm","MusicDirector":"A
.R.Rahmam","Singer":"Shangar Mahadevan"})
WriteResult({ "nInserted" : 1 })

```

> db.songdetails.insert({"Songname":"Evano
Oruvan","Film":"Alaipaiuthey","MusicDirector":"A.R.
Rahmam","Singer":"Swarnalatha"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Roja
Poonthodam","Film":"Kannukul
Nilavu","MusicDirector":"Illaiyaraja","Singer":"UniKri
shnan,Anuratha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Venilave
venilave Vinaithadi","Film":"Minsara
Kanavu","MusicDirector":"A.R.Rahmam","Singer":"Ha
riharan, Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Sollamal thottuch
chellum
thendral","Film":"Dheena","MusicDirector":"Yuvan
Shankae Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })

```



```

songdetails
> db.music.insert({"Songname":"Thaniye Thannanthaneye","Film":"Rhythm","MusicDirector":"A.R.Rahman","Singer":"Shangar
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Evano Oruvan","Film":"Alaipaiuthey","MusicDirector":"A.R.Rahman","Singer":"Swarnalatha
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Roja Poonthodam","Film":"Kannukul Nilavu","MusicDirector":"Illaiyaraja","Singer":"UniK
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Venilave venilave Vinaithadi","Film":"Minsara Kanavu","MusicDirector":"A.R.Rahman","Si
argan"})
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Sollamal thottuch chellum thendral","Film":"Dheena","MusicDirector":"Yuvan Shankae Raj
WriteResult({ "nInserted" : 1 })

```

4)List all documents created.

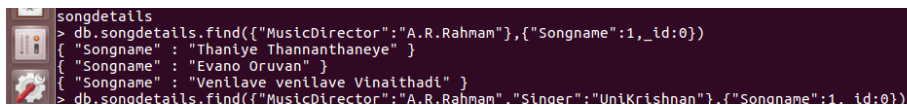
```
> db.songdetails.find()
{ "_id" : ObjectId("592412696c6e7ea6eee9c0a7"),
  "Songname" : "Thaniye Thannanthaneyey", "Film" :
  "Rhythm", "MusicDirector" : "A.R.Rahmam",
  "Singer" : "Shangar Mahadevan" }
{ "_id" : ObjectId("5924127d6c6e7ea6eee9c0a8"),
  "Songname" : "Evano Oruvan", "Film" : "Alaipaiuthey",
  "MusicDirector" : "A.R.Rahmam", "Singer" :
  "Swarnalatha" }
{ "_id" : ObjectId("592412936c6e7ea6eee9c0a9"),
  "Songname" : "Roja Poonthodam", "Film" : "Kannukul
  Nilavu", "MusicDirector" : "Illaiyaraja", "Singer" :
  "UniKrishnan,Anuratha Sriram" }
{ "_id" : ObjectId("592412a86c6e7ea6eee9c0aa"),
  "Songname" : "Venilave venilave Vinaithadi", "Film" :
  "Minsara Kanavu", "MusicDirector" : "A.R.Rahmam",
  "Singer" : "Hariharan, Sadhana Sargam" }
{ "_id" : ObjectId("592412c66c6e7ea6eee9c0ab"),
  "Songname" : "Sollamal thottuch chellum thendral",
  "Film" : "Dheena", "MusicDirector" : "Yuvan Shankae
  Raja", "Singer" : "Hariharan" }
```



```
> show collections
songdetails
> db.songdetails.find()
{ "_id" : ObjectId("592412696c6e7ea6eee9c0a7"), "Songname" : "Thaniye Thannanthaneyey", "Film" : "Rhythm", "MusicDirector" : "A.R.Rahmam", "Singer" : "Shangar Mahadevan" }
{ "_id" : ObjectId("5924127d6c6e7ea6eee9c0a8"), "Songname" : "Evano Oruvan", "Film" : "Alaipaiuthey", "MusicDirector" : "A.R.Rahmam", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("592412936c6e7ea6eee9c0a9"), "Songname" : "Roja Poonthodam", "Film" : "Kannukul Nilavu", "MusicDirector" : "Illaiyaraja", "Singer" : "UniKrishnan,Anuratha Sriram" }
{ "_id" : ObjectId("592412a86c6e7ea6eee9c0aa"), "Songname" : "Venilave venilave Vinaithadi", "Film" : "Minsara Kanavu", "MusicDirector" : "A.R.Rahmam", "Singer" : "Hariharan, Sadhana Sargam" }
{ "_id" : ObjectId("592412c66c6e7ea6eee9c0ab"), "Songname" : "Sollamal thottuch chellum thendral", "Film" : "Dheena", "MusicDirector" : "Yuvan Shankae Raja", "Singer" : "Hariharan" }
```

5) List A.R.Rahman's songs

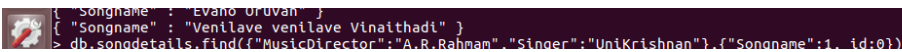
```
>db.songdetails.find({"MusicDirector":"A.R.Rahmam"  
},{ "Songname":1,_id:0})  
{ "Songname" : "Thaniye Thannanthaneyeye" }  
{ "Songname" : "Evano Oruvan" }
```



```
songdetails  
> db.songdetails.find({"MusicDirector":"A.R.Rahman"}, {"Songname":1, _id:0})  
{ "Songname" : "Thaniye Thannanthaneyeye" }  
{ "Songname" : "Evano Oruvan" }  
{ "Songname" : "Venilave venilave Vinaithadi" }  
> db.songdetails.find({"MusicDirector":"A.R.Rahman", "Singer":"Unikrishnan"}, {"Songname":1, _id:0})
```

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

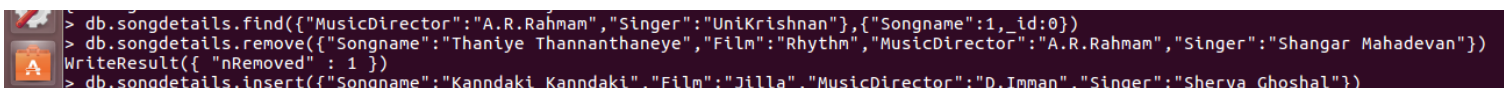
```
>db.songdetails.find({"MusicDirector":"A.R.Rahmam",  
"Singer":"UniKrishnan"}, {"Songname":1,_id:0})  
{ "Songname" : "Venilave venilave Vinaithadi" }
```



```
{ "Songname" : "Evano Oruvan" }  
{ "Songname" : "Venilave venilave Vinaithadi" }  
> db.songdetails.find({"MusicDirector":"A.R.Rahman", "Singer":"Unikrishnan"}, {"Songname":1, _id:0})
```

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

```
> db.songdetails.remove({"Songname":"Thaniye  
Thannanthaneyeye", "Film":"Rhythm", "MusicDirector":"A  
.R.Rahmam", "Singer":"Shangar Mahadevan"})  
WriteResult({ "nRemoved" : 1 })
```



```
> db.songdetails.find({"MusicDirector":"A.R.Rahmam", "Singer":"Unikrishnan"}, {"Songname":1, _id:0})  
> db.songdetails.remove({"Songname":"Thaniye Thannanthaneyeye", "Film":"Rhythm", "MusicDirector":"A.R.Rahmam", "Singer":"Shangar Mahadevan"})  
WriteResult({ "nRemoved" : 1 })  
> db.songdetails.insert({"Songname":"Kanndaki Kanndaki", "Film":"Jilla", "MusicDirector":"D.Imman", "Singer":"Sherya Ghoshal"})
```

8) Add new song which is your favourite.

```
> db.songdetails.insert({"Songname":"Kanndaki  
Kanndaki","Film":"Jilla","MusicDirector":"D.Imman","  
Singer":"Sherya Ghoshal"})  
WriteResult({ "nInserted" : 1 })
```

```
> db.songdetails.remove({"Songname":"ThanIye Thannanthaneyey","Film":"Rhythm","MusicDirector":"A.R.Rahman","Singer":"Shangar Mahadevan"})  
WriteResult({ "nRemoved" : 1 })  
> db.songdetails.insert({"Songname":"Kanndaki Kanndaki","Film":"Jilla","MusicDirector":"D.Imman","Singer":"Sherya Ghoshal"})  
WriteResult({ "nInserted" : 1 })  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1, id:0})
```

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

```
> db.songdetails.find({"Film":"Minsara  
Kanavu","Singer":"Hariharan, Sadhana Sargam"},  
{"Songname":1,_id:0})  
{ "Songname" : "Venilave venilave Vinaithadi" }
```

```
WriteResult({ "nInserted" : 1 })  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1, id:0})  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan, Sadhana Sargam"},{"Songname":1,_id:0})  
{ "Songname" : "Venilave venilave Vinaithadi" }  
> db.songdetails.find({},{"Singer":1,_id:0})  
{ "Singer" : "Swarnalatha" }  
{ "Singer" : "UniKrishnan,Anuratha Sriram" }
```

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

```
> db.songdetails.find({},{"Singer":1,_id:0})  
{ "Singer" : "Swarnalatha" }  
{ "Singer" : "UniKrishnan,Anuratha Sriram" }  
{ "Singer" : "Hariharan, Sadhana Sargam" }  
{ "Singer" : "Hariharan" }  
{ "Singer" : "Sherya Ghoshal" }
```

```
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1, id:0})  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan, Sadhana Sargam"},{"Songname":1,_id:0})  
{ "Songname" : "Venilave venilave Vinaithadi" }  
> db.songdetails.find({},{"Singer":1,_id:0})  
{ "Singer" : "Swarnalatha" }  
{ "Singer" : "UniKrishnan,Anuratha Sriram" }  
{ "Singer" : "Hariharan, Sadhana Sargam" }  
{ "Singer" : "Hariharan" }  
{ "Singer" : "Sherya Ghoshal" }
```

```

14@ukipc14: ~
> use music
switched to db music
> db
music
> db.createCollection("songdetails")
{ "ok" : 1 }
> show collections
songdetails
> db.music.insert({"Songname":"Thaniye Thannanthaneyey","Film":"Rhythm","MusicDirector":"A.R.Rahman","Singer":"Shangar Mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Evano Oruvan","Film":"Alaipaiuthey","MusicDirector":"A.R.Rahman","Singer":"Swarnalatha"})
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Roja Poonthodam","Film":"Kannukul Nilavu","MusicDirector":"Illaiyaraja","Singer":"Unikrishnan,Anuratha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Venilave venilave Vinaithadi","Film":"Minsara Kanavu","MusicDirector":"A.R.Rahman","Singer":"Hariharan, Sadhana S
argam"})
WriteResult({ "nInserted" : 1 })
> db.music.insert({"Songname":"Sollamal thottuch chellum thenndral","Film":"Dheena","MusicDirector":"Yuvan Shankae Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })
> show collection
2017-05-23T16:08:31.056+0530 E QUERY [thread1] Error: don't know how to show [collection] :
shellHelper.show@src/mongo/shell/utils.js:906:11
shellHelper@src/mongo/shell/utils.js:659:15
@(shellhelp2):1:1
> show collections
music
songdetails
> db.dropDatabase()
{ "dropped" : "music", "ok" : 1 }
> db.dropDatabase()
{ "ok" : 1 }
> show dbs
admin 0.000GB
local 0.000GB
> use music
switched to db music
> db
music
> db.songdetails.insert({"Songname":"Thaniye Thannanthaneyey","Film":"Rhythm","MusicDirector":"A.R.Rahman","Singer":"Shangar Mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Evano Oruvan","Film":"Alaipaiuthey","MusicDirector":"A.R.Rahman","Singer":"Swarnalatha"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Roja Poonthodam","Film":"Kannukul Nilavu","MusicDirector":"Illaiyaraja","Singer":"Unikrishnan,Anuratha Srir

```

```

14@ukipc14: ~
> db.songdetails.insert({"Songname":"Roja Poonthodam","Film":"Kannukul Nilavu","MusicDirector":"Illaiyaraja","Singer":"Unikrishnan,Anuratha Srir
am"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Venilave venilave Vinaithadi","Film":"Minsara Kanavu","MusicDirector":"A.R.Rahman","Singer":"Hariharan, Sad
hana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Sollamal thottuch chellum thenndral","Film":"Dheena","MusicDirector":"Yuvan Shankae Raja","Singer":"Harihara
n"})
WriteResult({ "nInserted" : 1 })
> show collections
songdetails
> db.songdetails.find()
{ "_id" : ObjectId("592412696c6e7ea6eee9c0a7"), "Songname" : "Thaniye Thannanthaneyey", "Film" : "Rhythm", "MusicDirector" : "A.R.Rahman", "Singer" : "Shangar Mahadevan" }
{ "_id" : ObjectId("5924127d6c6e7ea6eee9c0a8"), "Songname" : "Evano Oruvan", "Film" : "Alaipaiuthey", "MusicDirector" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("592412936c6e7ea6eee9c0a9"), "Songname" : "Roja Poonthodam", "Film" : "Kannukul Nilavu", "MusicDirector" : "Illaiyaraja", "Singer" : "Unikrishnan,Anuratha Sriram" }
{ "_id" : ObjectId("592412a86c6e7ea6eee9c0aa"), "Songname" : "Venilave venilave Vinaithadi", "Film" : "Minsara Kanavu", "MusicDirector" : "A.R.Rahman", "Singer" : "Hariharan, Sadhana Sargam" }
{ "_id" : ObjectId("592412c66c6e7ea6eee9c0ab"), "Songname" : "Sollamal thottuch chellum thenndral", "Film" : "Dheena", "MusicDirector" : "Yuvan Shankae Raja", "Singer" : "Hariharan" }
> show collections
songdetails
> db.songdetails.find({"MusicDirector":"A.R.Rahman"},{"Songname":1,_id:0})
{ "Songname" : "Thaniye Thannanthaneyey" }
{ "Songname" : "Evano Oruvan" }
{ "Songname" : "Venilave venilave Vinaithadi" }
> db.songdetails.find({"MusicDirector":"A.R.Rahman","Singer":"Unikrishnan"},{"Songname":1,_id:0})
> db.songdetails.remove({"Songname":"Thaniye Thannanthaneyey","Film":"Rhythm","MusicDirector":"A.R.Rahman","Singer":"Shangar Mahadevan"})
WriteResult({ "nRemoved" : 1 })
> db.songdetails.insert({"Songname":"Kannadaki Kannadaki","Film":"Jilla","MusicDirector":"D.Imman","Singer":"Sherya Ghoshal"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1,_id:0})
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan, Sadhana Sargam"},{"Songname":1,_id:0})
{ "Songname" : "Venilave venilave Vinaithadi" }
> db.songdetails.find({},{"Singer":1,_id:0})
{ "Singer" : "Swarnalatha" }
{ "Singer" : "Unikrishnan,Anuratha Sriram" }
{ "Singer" : "Hariharan, Sadhana Sargam" }
{ "Singer" : "Hariharan" }
{ "Singer" : "Sherya Ghoshal" }
>

```