

MongoDB Exercise 1

1) Create a Database called music.

```
ukistu14@ukipc14: ~  
> show dbs  
admin    0.000GB  
config   0.000GB  
local    0.000GB  
test     0.000GB  
uki3     0.000GB  
> use music  
switched to db music  
> db.createCollection('songdetails')  
{ "ok" : 1 }  
> db.songdetails.insert([{'Song Name':'Thaniye Thananthaniye','Film':'Rhythm','Music Director':'A.R.Rahman','Singer':'Shankar mahadevan'},{'Song Name':'Evano Oruvan','Film':'Alai Payuthey','Music Director':'A.R.Rahman','Singer':'Swarnalatha'},{'Song Name':'Raja Poonthottam','Film':'Kan nukkul Nilavu','Music Director':'Ilaiyaraaja','Singer':'Unnikrishnan,Anuradha Sriram'},{'Song Name':'Vennilavae Vennilave Vinnaithaandi','Film':'Minsara Kanavu','Music Director':'A.R.Rahman','Singer':'Hariharan,Sadhana Sargam'},{'Song Name':'Sollanal Thottu Chellum Thendral','Film':'Dheena','Music Director':'Yuva Shankar Raja','Singer':'Hariharan'}])  
BulkWriteResult({  
  "writeErrors" : [ ],  
  "writeConcernErrors" : [ ],  
  "nInserted" : 5,  
  "nUpserted" : 0,  
  "nMatched" : 0,  
  "nModified" : 0,  
  "nRemoved" : 0,  
  "upserted" : [ ]  
})  
> db.songdetails.find().pretty()  
{  
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db6"),  
  "Song Name" : "Thaniye Thananthaniye",  
  "Film" : "Rhythm",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Shankar mahadevan"  
}  
{  
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db7"),  
  "Song Name" : "Evano Oruvan",  
  "Film" : "Alai Payuthey",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Swarnalatha"  
}  
{  
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db8"),  
  "Song Name" : "Raja Poonthottam",  
  "Film" : "Kan nukkul Nilavu",  
  "Music Director" : "Ilaiyaraaja",  
  "Singer" : "Unnikrishnan,Anuradha Sriram"  
}  
{  
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db9"),  
  "Song Name" : "Vennilavae Vennilave Vinnaithaandi",  
  "Film" : "Minsara Kanavu",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Hariharan,Sadhana Sargam"  
}  
{  
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524dba"),  
  "Song Name" : "Sollanal Thottu Chellum Thendral",  
  "Film" : "Dheena",  
  "Music Director" : "Yuva Shankar Raja",  
  "Singer" : "Hariharan"  
}
```

```
> show dbs  
admin    0.000GB  
config   0.000GB  
local    0.000GB  
test     0.000GB  
uki3     0.000GB  
> use music  
switched to db music
```

2) Create a collection called songdetails.

```
> db.createCollection('songdetails')  
{ "ok" : 1 }
```

3) Create the above 5 song documents.

```
> db.songdetails.insert([{'Song Name':'Thaniye Thananthaniye','Film':'Rhythm','Music Director':'A.R.Rahman','Singer':'Shankar mahadevan'},{'Song Name':'Evano Oruvan','Film':'Alai Payuthey','Music Director':'A.R.Rahman','Singer':'Swarnalatha'},{'Song Name':'Raja Poonthottam','Film':'Kan nukkul Nilavu','Music Director':'Ilaiyaraaja','Singer':'Unnikrishnan,Anuradha Sriram'},{'Song Name':'Vennilavae Vennilave Vinnaithaandi','Film':'Minsara Kanavu','Music Director':'A.R.Rahman','Singer':'Hariharan,Sadhana Sargam'},{'Song Name':'Sollanal Thottu Chellum Thendral','Film':'Dheena','Music Director':'Yuva Shankar Raja','Singer':'Hariharan'}])  
BulkWriteResult({  
  "writeErrors" : [ ],  
  "writeConcernErrors" : [ ],  
  "nInserted" : 5,  
  "nUpserted" : 0,  
  "nMatched" : 0,  
  "nModified" : 0,  
  "nRemoved" : 0,  
  "upserted" : [ ]  
})
```

4) List all documents created.

```
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db6"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db7"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai Payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db8"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilaiyaraaja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524db9"),
  "Song Name" : "Vennilavae Vennilave Vinnaithaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana Sargam"
}
{
  "_id" : ObjectId("5b3d8db09d0d6b4cfd524dba"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
```

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

```
> db.songdetails.find({'Music Director' : 'A.R.Rahman'})
{ "_id" : ObjectId("5b3d8db09d0d6b4cfd524db6"), "Song Name" : "Thaniye Thananthaniye", "Film" : "Rhythm", "Music Director" : "A.R.Rahman", "Singer" : "Shankar mahadevan" }
{ "_id" : ObjectId("5b3d8db09d0d6b4cfd524db7"), "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5b3d8db09d0d6b4cfd524db9"), "Song Name" : "Vennilavae Vennilave Vinnaithaandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
```

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

```
> db.songdetails.find({'Music Director' : 'A.R.Rahman','Singer' : 'Unnikrishnan'})
```

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

```
> db.songdetails.remove({"Song Name" : "Thaniye Thananthaniye", })
WriteResult({ "nRemoved" : 1 })
```

8) Add new song which is your favourite.

```
> db.songdetails.insert({'Song Name':'Roja Roja'})
WriteResult({ "nInserted" : 1 })
```

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

```
> db.songdetails.find({'Film':'Minsara Kanavu','Singer':'Hariharan,Sadhana Sargam'})
{ "_id" : ObjectId("5b3d8db09d0d6b4cfd524db9"), "Song Name" : "Vennilavae Vennilave Vinnaithaandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
```

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

```
> db.songdetails.find({},{"Singer":1,_id:0})
{ "Singer" : "Swarnalatha" }
{ "Singer" : "Unnikrishnan,Anuradha Sriram" }
{ "Singer" : "Hariharan,Sadhana Sargam" }
{ "Singer" : "Hariharan" }
{ }
>
```