

MongoDB Exercise 1

- Create a Database called music.
 - use music

```
>
> use music
switched to db music
> █
```

- Create a collection called songdetails
 - db.createCollection('songdetails')

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

- Create the above 5 songs documents
 - db.songdetails.insert([{'Song Name':'Thaniye Thananthaniye','Film':'Rythm','Music Director':'A.R.Rahman','Singer':'Shankar Mahadevan'},{'Song Name':'Evano Oruvan','Film':'Alai Payuthey','Music Director':'A.R.Rahman','Singer':'Swarnalatha'},{'Song Name':'Roja Poonthodam','Film':'Kannukkul Nilavu','Music Director':'Ilaiyaraja','Singer':'Unnikrishnan Anuradha sriram'},{'Song Name':'Vennilave vennilave vinnaitandi','Film':'Minsara kanavu','Music Director':'A.R.Rahman','Singer':'Hariharan Sadhana Sargam'},{'Song Name':'Soolamal Thottu Chellum Thenral','Film':'Dheena','Music Director':'Yuvan Shankar Raja','Singer':'Hariharan'}])

```
> db.songdetails.insert([{'Song Name':'Thaniye Thananthaniye','Film':'Rythm','Music Director':'A.R.Rahman','Singer':'Shankar Mahadevan'},{'Song Name':'Evano Oruvan','Film':'Alai Payuthey','Music Director':'A.R.Rahman','Singer':'Swarnalatha'},{'Song Name':'Roja Poonthodam','Film':'Kannukkul Nilavu','Music Director':'Ilaiyaraja','Singer':'Unnikrishnan Anuradha sriram'},{'Song Name':'Vennilave vennilave vinnaitandi','Film':'Minsara kanavu','Music Director':'A.R.Rahman','Singer':'Hariharan Sadhana Sargam'},{'Song Name':'Soolamal Thottu Chellum Thenral','Film':'Dheena','Music Director':'Yuvan Shankar Raja','Singer':'Hariharan'}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 5,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
```

- List all documents created

```
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f1"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar Mahadevan"
}
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f2"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai Payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f3"),
  "Song Name" : "Roja Poonthodam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilaiyaraja",
  "Singer" : "Unnikrishnan Anuradha sriram"
}
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f4"),
  "Song Name" : "Vennilave vennilave vinnaitthandi",
  "Film" : "Minsara kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan Sadhana Sargam"
}
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f5"),
  "Song Name" : "Soolamal Thottu Chellum Thenral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
```

- List A.R.Rahamn songs
 - `db.songdetails.find({'Music Director':'A.R.Rahman'}).pretty()`

```
>
>
> db.songdetails.find({'Music Director':'A.R.Rahman'}).pretty()
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f1"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar Mahadevan"
}
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f2"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai Payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5b3cfe290f4bec89a34eb0f4"),
  "Song Name" : "Vennilave vennilave vinnaihandi",
  "Film" : "Minsara kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan Sadhana Sargam"
}
>
```

- List A.R.Rahman's songs sung by Unnikrishnan.
 - `db.songdetails.find({'Music Director':'A.R.Rahman','Singer':'Unnikrishnan'})`

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

- Delete the song which you don't like.
 - `db.songdetails.remove({'Song Name':'Evano Oruvan'})`

```
>
>
> db.songdetails.remove({'Song Name':'Evano Oruvan'})
WriteResult({ "nRemoved" : 0 })
>
>
```

```
> db.songdetails.remove({'Song Name':'Evano Oruvan'})
WriteResult({ "nRemoved" : 1 })
>
>
```

- Add new song which is your favourite.
 - `db.songdetails.insert({'Song Name':'Alaporan Tamizan'})`

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

- List Songs sung by Hariharan from Minsara kanavu film.
 - `db.songdetails.find({'Film':'Minsara kanavu'})`

```
db.songdetails.find({'Film':'Minsara kanavu'})
```

List out the singers' names in your document.

`db.songdetails.find().sort('Singer')`

```
db.songdetails.find().sort('Singer')
error: error: {
  "ok" : 0,
  "errmsg" : "Failed to parse: sort: \"Singer\". 'sort' field must be of BSON type object.",
  "code" : 9,
  "codeName" : "FailedToParse"
}

>db.songdetails.find({},{"Singer":1,_id:0}).sort({"Singer":-1})
018-07-05T09:00:11.432+0530 E QUERY [thread1] SyntaxError: expected expression, got '>' @(shell):1:0
>db.songdetails.find({},{'Singer':1,_id:0}).sort({'Singer':-1})
018-07-05T09:00:48.189+0530 E QUERY [thread1] SyntaxError: expected expression, got '>' @(shell):1:0
db.songdetails.find({},{'Singer':1,_id:0}).sort({'Singer':-1})
db.songdetails.find({},{'Singer':1,_id:0}).sort({'Singer':-1})
```