MongoDB Exercise1

1) Create a Database called music.

```
> use Music
switched to db Music
> db
```

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":"Roja Poonthottam","Film":"Kannu
kkul Nilavu","Music Director":"Ilaiyaraaja","Singer":"Unnikrishnan,Anuradha Sriram"},{"Song Name":"Vennilavae Vennilavae Vinnaithaandi","Film":"
Minsara Kanavu","Music Director":"A.R.Rahman","Singer":"Hariharan, Sadhana Sargam"},{"Song Name":"Sollamal Thottu Chellum Thendral","Film":"Dhee
na","Music Director":"Yuvan 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("5d11a8bb5f086b7e4d0961e1"),
        "Song Name" : "Thaniye Thananthaniye",
        "Film" : "Rhythm",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Shankar mahadevan"
}
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e2"),
        "Song Name" : "Evano Oruvan",
        "Film" : "Alai Payuthey",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Swarnalatha"
}
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e3"),
        "Song Name" : "Roja Poonthottam",
        "Film" : "Kannukkul Nilavu",
        "Music Director" : "Ilaiyaraaja",
        "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e4"),
        "Song Name" : "Vennilavae Vennilavae Vinnaithaandi",
        "Film" : "Minsara Kanavu",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Hariharan, Sadhana Sargam"
}
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e5"),
        "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"}).pretty()
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e1"),
        "Song Name" : "Thaniye Thananthaniye",
        "Film" : "Rhythm",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Shankar mahadevan"
}
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e2"),
        "Song Name" : "Evano Oruvan",
        "Film" : "Alai Payuthey",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Swarnalatha"
}
{
        "_id" : ObjectId("5d11a8bb5f086b7e4d0961e4"),
        "Song Name" : "Vennilavae Vennilavae 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({$and:[{"Music Director":"A.R.Rahman"},{"Singer":"Unnikrishnan"}]}).pretty()
>
```

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

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

8) Add new song which is your favourite.

```
> db.Songdetails.insert([{"Song Name":"Unai Thinam Ethirparththen","Film":"Kadhaludan","Music Director":"Rajakumaran","Singer":"S.A.Rajkumar"}])

BulkWriteResult({
        "writeErrors" : [ ],
        "writeConcernErrors" : [ ],
        "nInserted" : 1,
        "nUpserted" : 0,
        "nMatched" : 0,
        "nModified" : 0,
        "nRemoved" : 0,
        "upserted" : [ ]
})
>
```

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

```
> db.Songdetails.find({$and:[{"Singer" : "Hariharan"},{"Film" : "Minsara Kanavu"}]},{"Film":0,"Music Director":0,"Singer":0}).pretty()
```

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

```
> db.Songdetails.find({},{"Singer":1,_id:0}).limit(3)
{ "Singer" : "Shankar mahadevan" }
{ "Singer" : "Unnikrishnan,Anuradha Sriram" }
{ "Singer" : "Hariharan, Sadhana Sargam" }
>
```