

1. Create a database called **music** & create collection called **songdetails**.

```
ukistu05@ukipc05: ~  
bash: /home/ukistu05/Downloads/mongodb-linux-x86_64-ubuntu1604-3.4.4/bin: No such file or directory  
ukistu05@ukipc05:~$ sudo mongo  
[sudo] password for ukistu05:  
MongoDB shell version v3.4.4  
connecting to: mongodb://127.0.0.1:27017  
MongoDB server version: 3.4.4  
Server has startup warnings:  
2018-07-05T12:27:52.512+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine  
2018-07-05T12:27:52.512+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem  
2018-07-05T12:27:53.694+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.  
2018-07-05T12:27:53.695+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.  
2018-07-05T12:27:53.695+0530 I CONTROL [initandlisten] ** WARNING: You are running this process as the root user, which is not recommended.  
2018-07-05T12:27:53.695+0530 I CONTROL [initandlisten]  
2018-07-05T12:27:53.695+0530 I CONTROL [initandlisten]  
2018-07-05T12:27:53.696+0530 I CONTROL [initandlisten]  
2018-07-05T12:27:53.696+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enabled is 'always'.  
2018-07-05T12:27:53.696+0530 I CONTROL [initandlisten] ** We suggest setting it to 'never'  
2018-07-05T12:27:53.696+0530 I CONTROL [initandlisten]  
> show dbs  
admin 0.000GB  
local 0.000GB  
uk13 0.000GB  
> use music  
switched to db music  
> db.createCollection("songdetails")  
{ "ok" : 1 }  
>
```

2. Create the above 5 song documents.

```
ukistu05@ukipc05: ~  
> db.songdetails.insert({"songname": "ThanIye Thannanthaniye", "film": "Rhythm", "music director": "A.R Rahman", "singer": "Shankar makathevan"})  
WriteResult({ "nInserted" : 1 })  
> db.songdetails.insert({"songname": "Evano Oruvan", "film": "Alai Pauthey", "music director": "A.R Rahman", "singer": "Swanalatha"})  
WriteResult({ "nInserted" : 1 })  
> db.songdetails.insert({"songname": "Roja Poonthittam", "film": "Kannukkul Nilavu", "music director": "Ilaiyaraaja", "singer": "unnikrishnan, Anuratha Sriram"})  
WriteResult({ "nInserted" : 1 })  
> db.songdetails.insert({"songname": "Vennilavae Vennilavae Vinnaithaandi", "film": "Minsara Kanavu", "music director": "A.R Rahman", "singer": "Hariharan Sadhana Sargam"})  
WriteResult({ "nInserted" : 1 })  
> db.songdetails.insert({"songname": "Sollamal Thottu Chellum Thendral", "film": "dheena", "music director": "Yuva Shankar Raja", "singer": "Hariharan"})  
WriteResult({ "nInserted" : 1 })  
>
```

3. List all documents created

```
> db.songdetails.find().pretty()  
{  
  "_id" : ObjectId("5b3dc3a5716ff559f4c333f0"),  
  "songname" : "ThanIye Thannanthaniye",  
  "film" : "Rhythm",  
  "music director" : "A.R Rahman",  
  "singer" : "Shankar makathevan"  
}  
{  
  "_id" : ObjectId("5b3dc3bc716ff559f4c333f1"),  
  "songname" : "Evano Oruvan",  
  "film" : "Alai Pauthey",  
  "music director" : "A.R Rahman",  
  "singer" : "Swanalatha"  
}  
{  
  "_id" : ObjectId("5b3dc3cb716ff559f4c333f2"),  
  "songname" : "Roja Poonthittam",  
  "film" : "Kannukkul Nilavu",  
  "music director" : "Ilaiyaraaja",  
  "singer" : "unnikrishnan, Anuratha Sriram"  
}  
{  
  "_id" : ObjectId("5b3dc3da716ff559f4c333f3"),  
  "songname" : "Vennilavae Vennilavae Vinnaithaandi",  
  "film" : "Minsara Kanavu",  
  "music director" : "A.R Rahman",  
  "singer" : "Hariharan Sadhana Sargam"  
}  
{  
  "_id" : ObjectId("5b3dc3e1716ff559f4c333f4"),  
  "songname" : "Sollamal Thottu Chellum Thendral",  
  "film" : "dheena",  
  "music director" : "Yuva Shankar Raja",  
  "singer" : "Hariharan"  
}  
>
```

4. List A.R Rahman's songs

```
> db.songdetails.find({"music director":"A.R Rahman"}).pretty()
{
  "_id" : ObjectId("5b3dc3a5716ff559f4c333f0"),
  "songname" : "Thanaye Thannanthanaye",
  "film" : "Rhythm",
  "music director" : "A.R Rahman",
  "singer" : "Shankar makathevan"
}
{
  "_id" : ObjectId("5b3dc3bc716ff559f4c333f1"),
  "songname" : "Evano Oruvan",
  "film" : "Alai Pauthey",
  "music director" : "A.R Rahman",
  "singer" : "Swanalatha"
}
{
  "_id" : ObjectId("5b3dc3da716ff559f4c333f3"),
  "songname" : "Vennilavae Vennilavae Vinnaithaandi",
  "film" : "Minsara Kanavu",
  "music director" : "A.R Rahman",
  "singer" : "Hariharan Sadhana Sargam"
}
```

5. List A.R.Rahman's songs sung by Unnikrishnan.

```
> db.songdetails.find({"music director":"A.R Rahman","singer":"Unnikrishnan"})
{
  "_id" : ObjectId("5b3dc3a5716ff559f4c333f0"),
  "songname" : "Thanaye Thannanthanaye",
  "film" : "Rhythm",
  "music director" : "A.R Rahman",
  "singer" : "Shankar makathevan"
}
```

6. Delete the song which you don't like.

```
> db.songdetails.remove({"songname":"Vennilavae Vennilavae Vinnaithaandi"})
WriteResult({ "nRemoved" : 0 })
```

7. Add new song which is your favourite.

```
> db.songdetails.insert({"songname":"Thodu Vanam","film":"Anegan","music director":"Yuva","singer":"Karthik"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find({"songname":"Thodu Vanam"})
{
  "_id" : ObjectId("5b3dd6bd716ff559f4c333f5"), "songname" : "Thodu Vanam", "film" : "Anegan", "music director" : "Yuva", "singer" : "Karthik"
}
> db.songdetails.find({"songname":"Thodu Vanam"}).pretty()
{
  "_id" : ObjectId("5b3dd6bd716ff559f4c333f5"),
  "songname" : "Thodu Vanam",
  "film" : "Anegan",
  "music director" : "Yuva",
  "singer" : "Karthik"
}
```

8. List Songs sung by Hariharan from Minsara kanavu film.

```
> db.songdetails.find({"film":"Minsara Kanavu","singer":"Hariharan Sadhana Sargam"})
{
  "_id" : ObjectId("5b3dc3da716ff559f4c333f3"), "songname" : "Vennilavae Vennilavae Vinnaithaandi", "film" : "Minsara Kanavu", "music director" : "A.R Rahman", "singer" : "Hariharan Sadhana Sargam"
}
```

9. List out the singers' names in your document.

```
> db.songdetails.find({},{"singer":1,_id:0})
{ "singer" : "Shankar makathevan" }
{ "singer" : "Swanalatha" }
{ "singer" : "unnikrishnan,Anuratha Sriram" }
{ "singer" : "Hariharan Sadhana Sargam" }
{ "singer" : "Hariharan" }
{ "singer" : "Karthik" }
```