

1) Create a Database called music.

- use music

```
ukistu20@ukipc20: ~
[sudo] password for ukistu20:
MongoDB shell version v3.6.9
connecting to: mongodb://127.0.0.1:27017
Implicit session: session { "id" : UUID("53e792fe-51e5-477d-839a-2069eb627a50") }
MongoDB server version: 3.6.9
Server has startup warnings:
2019-01-08T10:29:49.199+0530 I STORAGE [initandlisten]
2019-01-08T10:29:49.199+0530 I STORAGE [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine
2019-01-08T10:29:49.199+0530 I STORAGE [initandlisten] ** See http://dochub.mongodb.org/core/prodnotes-filesystem
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten]
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** WARNING: Read and write access to data and configuration is unrestricted.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** WARNING: You are running this process as the root user, which is not recommended.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten]
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** Remote systems will be unable to connect to this server.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** Start the server with --bind_ip <address> to specify which IP
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** addresses it should serve responses from, or with --bind_ip_all to
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** bind to all interfaces. If this behavior is desired, start the
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** server with --bind_ip 127.0.0.1 to disable this warning.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten]
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enabled is 'always'.
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten] ** We suggest setting it to 'never'
2019-01-08T10:29:50.672+0530 I CONTROL [initandlisten]

> use music
switched to db music
> db.createCollection("songdetails")
{ "ok" : 1 }
> db.songdetails.insert({"Song Name":"Thaniye Thananthaniye"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Film":"Rhythm"})
2019-01-08T12:23:39.013+0530 E QUERY [thread1] SyntaxError: missing ) after argument list @(shell):1:24
> db.songdetails.insert({"Film":"Rhythm"},"Music Director":"A.R.Rahman"},"Singer":"Shankar mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find()
{ "_id" : ObjectId("5c344883f974fb74348ce30"), "Song Name" : "Thaniye Thananthaniye" }
{ "_id" : ObjectId("5c344987f974fb74348ce31"), "Film" : "Rhythm" }
> db.songdetails.insert({"Music Director":"A.R.Rahman"})
WriteResult({ "nInserted" : 1 })
```

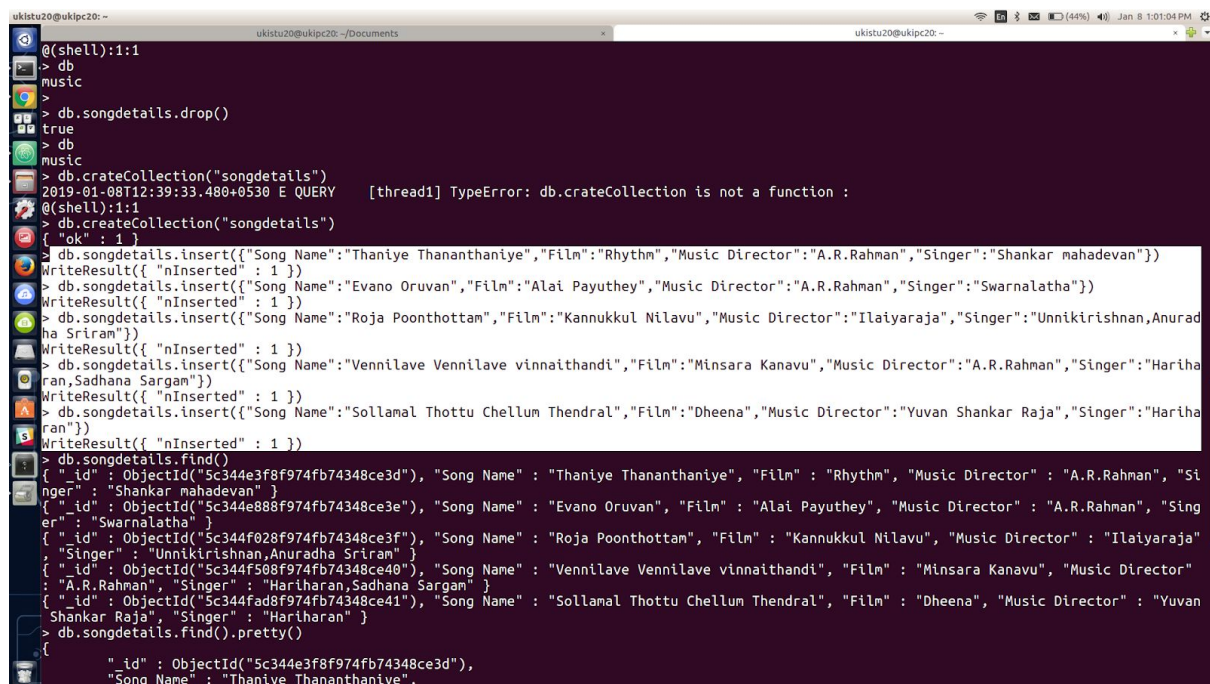
2) Create a collection called songdetails.

- db.createCollection("songdetails")

```
ukistu20@ukipc20: ~
> use music
switched to db music
> db.createCollection("songdetails")
2019-01-08T12:39:33.480+0530 E QUERY [thread1] TypeError: db.createCollection is not a function :
@(shell):1:1
> db.createCollection("songdetails")
{ "ok" : 1 }
> db.songdetails.insert({"Song Name":"Thaniye Thananthaniye","Film":"Rhythm","Music Director":"A.R.Rahman","Singer":"Shankar mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Evano Oruvan","Film":"Alai Payuthey","Music Director":"A.R.Rahman","Singer":"SwarnaLatha"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Roja Poonthottam","Film":"Kannukkul Nilavu","Music Director":"Ilaiyaraaja","Singer":"Unnikrishnan,Anuradha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Vennilave Vennilave vinnathandi","Film":"Minsara Kanavu","Music Director":"A.R.Rahman","Singer":"Hariharan,Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Sollamal Thottu Chellum Thendral","Film":"Dheena","Music Director":"Yuva Shankar Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find()
{ "_id" : ObjectId("5c344e3f8f974fb74348ce3d"), "Song Name" : "Thaniye Thananthaniye", "Film" : "Rhythm", "Music Director" : "A.R.Rahman", "Singer" : "Shankar mahadevan" }
{ "_id" : ObjectId("5c344e88f974fb74348ce3e"), "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer" : "SwarnaLatha" }
{ "_id" : ObjectId("5c344f028f974fb74348ce3f"), "Song Name" : "Roja Poonthottam", "Film" : "Kannukkul Nilavu", "Music Director" : "Ilaiyaraaja", "Singer" : "Unnikrishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f508f974fb74348ce40"), "Song Name" : "Vennilave Vennilave vinnathandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
{ "_id" : ObjectId("5c344fad8f974fb74348ce41"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuva Shankar Raja", "Singer" : "Hariharan" }
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344e3f8f974fb74348ce3d"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344e88f974fb74348ce3e"),
```

3) Create the above 5 song documents.

```
db.songdetails.insert({"Song Name":"Thaniye Thananthaniye","Film":"Rhythm","Music Director":"A.R.Rahman","Singer":"Shankar mahadevan"})
WriteResult({ "nInserted" : 1 })
db.songdetails.insert({"Song Name":"Evano Oruvan","Film":"Alai Payuthey","Music Director":"A.R.Rahman","Singer":"Swarnalatha"})
WriteResult({ "nInserted" : 1 })
db.songdetails.insert({"Song Name":"Roja Poonthottam","Film":"Kannukkul Nilavu","Music Director":"Ilaiyaraja","Singer":"Unnikirishnan,Anuradha Sriram"})
WriteResult({ "nInserted" : 1 })
db.songdetails.insert({"Song Name":"Vennilave Vennilave vinnaitthandi","Film":"Minsara Kanavu","Music Director":"A.R.Rahman","Singer":"Hariharan,Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
db.songdetails.insert({"Song Name":"Sollamal Thottu Chellum Thendral","Film":"Dheena","Music Director":"Yuvan Shankar Raja","Singer":"Hariharan"})
```



```
ukistu20@ukipc20: ~
@ (shell):1:1
> db
music
> db.songdetails.drop()
true
> db
music
> db.createCollection("songdetails")
2019-01-08T12:39:33.480+0530 E QUERY [thread1] TypeError: db.createCollection is not a function :
@ (shell):1:1
> db.createCollection("songdetails")
{ "ok" : 1 }
> db.songdetails.insert({"Song Name":"Thaniye Thananthaniye","Film":"Rhythm","Music Director":"A.R.Rahman","Singer":"Shankar mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Evano Oruvan","Film":"Alai Payuthey","Music Director":"A.R.Rahman","Singer":"Swarnalatha"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Roja Poonthottam","Film":"Kannukkul Nilavu","Music Director":"Ilaiyaraja","Singer":"Unnikirishnan,Anuradha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Vennilave Vennilave vinnaitthandi","Film":"Minsara Kanavu","Music Director":"A.R.Rahman","Singer":"Hariharan,Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Sollamal Thottu Chellum Thendral","Film":"Dheena","Music Director":"Yuvan Shankar Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find()
{ "_id" : ObjectId("5c344e3f8f974fb74348ce3d"), "Song Name" : "Thaniye Thananthaniye", "Film" : "Rhythm", "Music Director" : "A.R.Rahman", "Singer" : "Shankar mahadevan" }
{ "_id" : ObjectId("5c344e888f974fb74348ce3e"), "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c344f028f974fb74348ce3f"), "Song Name" : "Roja Poonthottam", "Film" : "Kannukkul Nilavu", "Music Director" : "Ilaiyaraja", "Singer" : "Unnikirishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f508f974fb74348ce40"), "Song Name" : "Vennilave Vennilave vinnaitthandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
{ "_id" : ObjectId("5c344fad8f974fb74348ce41"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan Shankar Raja", "Singer" : "Hariharan" }
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344e3f8f974fb74348ce3d"),
  "Song Name" : "Thaniye Thananthaniye",
```

4) List all documents created.

- `db.songdetails.find().pretty()`

```
ukistu20@ukipc20:~$ mongo
MongoDB shell version: 3.6.1
connect: to ukipc20:27020 connection established.
use test
> use test
switched to db test
> db.songdetails.find().pretty()
{ "_id" : ObjectId("5c344fad8f974fb74348ce41"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan Shankar Raja", "Singer" : "Hariharan" }
> db.songdetails.find().pretty()
{ "_id" : ObjectId("5c344e3f8f974fb74348ce3d"), "Song Name" : "Thaniye Thananthaniye", "Film" : "Rhythm", "Music Director" : "A.R.Rahman", "Singer" : "Shankar mahadevan" }
{ "_id" : ObjectId("5c344e888f974fb74348ce3e"), "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c344f028f974fb74348ce3f"), "Song Name" : "Raja Poonthottam", "Film" : "Kannukkul Nilavu", "Music Director" : "Ilaiyaraja", "Singer" : "Unnikirishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f508f974fb74348ce40"), "Song Name" : "Vennilave Vennilave vinnaihandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
{ "_id" : ObjectId("5c344fad8f974fb74348ce41"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan Shankar Raja", "Singer" : "Hariharan" }
> db.songdetails.find().^C
bye
ukistu20@ukipc20:~$
```


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

- `db.songdetails.find({"Music Director":"A.R.Rahman"})`

```
ukistu20@ukipc20:~$ mongo
MongoDB shell version: 3.6.1
connect: to ukipc20:27020 connection established.
use test
> use test
switched to db test
> db.songdetails.find({"Music Director":"A.R.Rahman"})
{ "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c344f028f974fb74348ce3f"), "Song Name" : "Raja Poonthottam", "Film" : "Kannukkul Nilavu", "Music Director" : "Ilaiyaraja", "Singer" : "Unnikirishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f508f974fb74348ce40"), "Song Name" : "Vennilave Vennilave vinnaihandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
{ "_id" : ObjectId("5c344fad8f974fb74348ce41"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan Shankar Raja", "Singer" : "Hariharan" }
> db.songdetails.find({"Music Director":"A.R.Rahman"})
{ "_id" : ObjectId("5c344e3f8f974fb74348ce3d"), "Song Name" : "Thaniye Thananthaniye", "Film" : "Rhythm", "Music Director" : "A.R.Rahman", "Singer" : "Shankar mahadevan" }
{ "_id" : ObjectId("5c344e888f974fb74348ce3e"), "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c344f508f974fb74348ce40"), "Song Name" : "Vennilave Vennilave vinnaihandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana Sargam" }
```


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

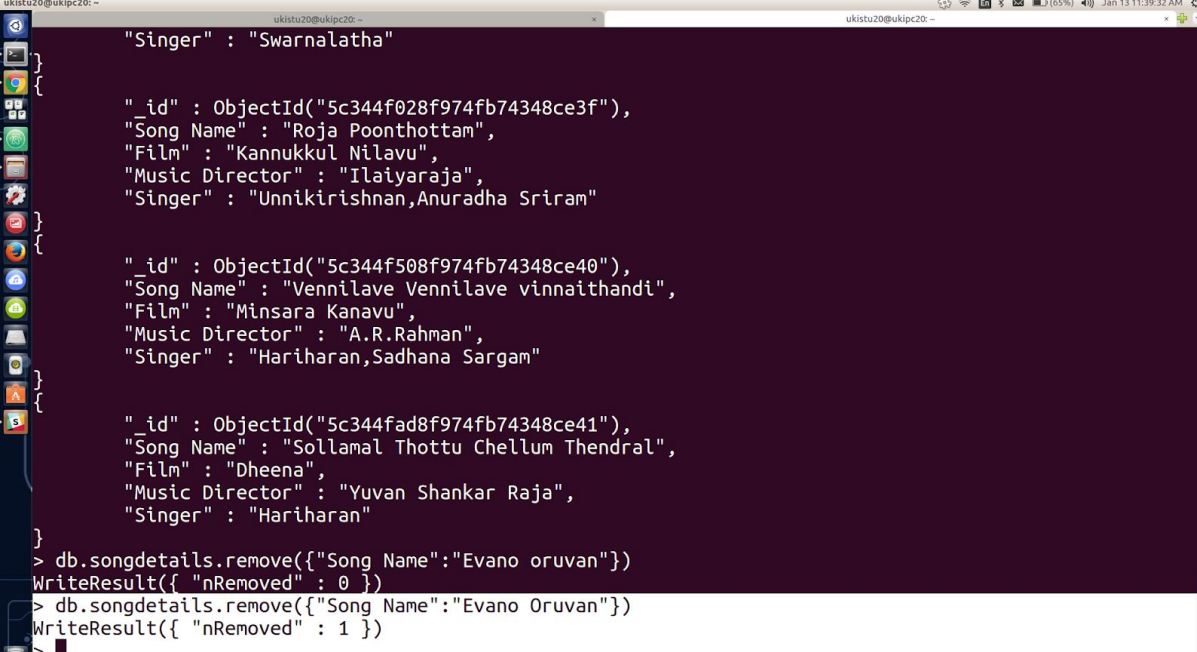
- `db.songdetails.find({"Music Director":"Ilaiyaraja","Singer":"Unnikirishnan,Anuradha Sriram"},"Song Name":1,_id:0})`



```
ukistu20@ukipc20: ~  
ukistu20@ukipc20: ~  
ukistu20@ukipc20: ~  
"Singer" : "Swarnalatha"  
}  
}  
}_id" : ObjectId("5c344f028f974fb74348ce3f"),  
"Song Name" : "Roja Poonthottam",  
"Film" : "Kannukkul Nilavu",  
"Music Director" : "Ilaiyaraja",  
"Singer" : "Unnikirishnan,Anuradha Sriram"  
}  
}_id" : ObjectId("5c344f508f974fb74348ce40"),  
"Song Name" : "Vennilave Vennilave vinnaihandi",  
"Film" : "Minsara Kanavu",  
"Music Director" : "A.R.Rahman",  
"Singer" : "Hariharan,Sadhana Sargam"  
}  
}_id" : ObjectId("5c344fad8f974fb74348ce41"),  
"Song Name" : "Sollamal Thottu Chellum Thendral",  
"Film" : "Dheena",  
"Music Director" : "Yuvan Shankar Raja",  
"Singer" : "Hariharan"  
}  
> db.songdetails.find({"Music Director":"Ilaiyaraja","Singer":"Unnikirishnan"},"Song Name":1, id:0})  
> db.songdetails.find({"Music Director":"Ilaiyaraja","Singer":"Unnikirishnan,Anuradha Sriram"},"Song Name":1,_id:0})  
{ "Song Name" : "Roja Poonthottam" }
```

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

- `db.songdetails.remove({"Song Name":"Evano Oruvan"})`



```
ukistu20@ukipc20: ~  
ukistu20@ukipc20: ~  
ukistu20@ukipc20: ~  
"Singer" : "Swarnalatha"  
}  
}_id" : ObjectId("5c344f028f974fb74348ce3f"),  
"Song Name" : "Roja Poonthottam",  
"Film" : "Kannukkul Nilavu",  
"Music Director" : "Ilaiyaraja",  
"Singer" : "Unnikirishnan,Anuradha Sriram"  
}  
}_id" : ObjectId("5c344f508f974fb74348ce40"),  
"Song Name" : "Vennilave Vennilave vinnaihandi",  
"Film" : "Minsara Kanavu",  
"Music Director" : "A.R.Rahman",  
"Singer" : "Hariharan,Sadhana Sargam"  
}  
}_id" : ObjectId("5c344fad8f974fb74348ce41"),  
"Song Name" : "Sollamal Thottu Chellum Thendral",  
"Film" : "Dheena",  
"Music Director" : "Yuvan Shankar Raja",  
"Singer" : "Hariharan"  
}  
> db.songdetails.remove({"Song Name":"Evano oruvan"})  
WriteResult({ "nRemoved" : 0 })  
> db.songdetails.remove({"Song Name":"Evano Oruvan"})  
WriteResult({ "nRemoved" : 1 })  
>
```

8) Add new song which is your favourite.

- `db.songdetails.insert({"Song Name":"Kannana Kanne","Film":"Viswasam","Music Director":"D.imman","Singer":"Sid Sriram"})`

```
ukistu20@ukipc20:~$ > db.songdetails.remove({"Song Name":"Evano oruvan"})
WriteResult({ "nRemoved" : 0 })
> db.songdetails.remove({"Song Name":"Evano Oruvan"})
WriteResult({ "nRemoved" : 1 })
> db.songdetails.insert({"Song Name":"Kannana Kanne","Film":"Viswasam","Music Director":"D.imman","Singer":"Sid Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344e3f8f974fb74348ce3d"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344f028f974fb74348ce3f"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilaiyaraaja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "_id" : ObjectId("5c344f508f974fb74348ce40"),
  "Song Name" : "Vennilave Vennilave vinnaihandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana Sargam"
}
```

9) List Songs sung by Sid sriram from Viswasam film.

- `db.songdetails.find({"Film":"Viswasam","Singer":"Sid Sriram"},{"Song Name":1,_id:0})`

```
ukistu20@ukipc20:~$ "Music Director" : "A.R.Rahman",
"Singer" : "Hariharan,Sadhana Sargam"
}
{
  "_id" : ObjectId("5c344fad8f974fb74348ce41"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
{
  "_id" : ObjectId("5c3ad7b14dc12d548a3b1da7"),
  "Song Name" : "Kannana Kanne",
  "Film" : "Viswasam",
  "Music Director" : "D.imman",
  "Singer" : "Sid Sriram"
}
> db.songdetails.find({"Song Name":"Viswasam","Singer":"Sid sriram"},{"Song Name":1,_id:0})
> db.songdetails.find({"Song Name":"Viswasam","Singer":"Sid Sriram"},{"Song Name":1,_id:0})
> db.songdetails.find({"Film":"Viswasam","Singer":"Sid Sriram"},{"Song Name":1,_id:0})
{
  "Song Name" : "Kannana Kanne"
}
> db.songdetails.insert({"Song Name":"Adhu thooku","Film":"Viswasam","Music Director":"D.imman","Singer":"Sid Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find({"Film":"Viswasam","Singer":"Sid Sriram"},{"Song Name":1, id:0})
{
  "Song Name" : "Kannana Kanne"
}
{
  "Song Name" : "Adhu thooku"
}
```

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

- `db.songdetails.find({}, {"Singer":1, _id:0}).pretty()`

```
ukistu20@ukipc20: ~
{
  "_id" : ObjectId("5c344f508f974fb74348ce40"),
  "Song Name" : "Vennilave Vennilave vinnaihandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana Sargam"
}

{
  "_id" : ObjectId("5c344fad8f974fb74348ce41"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}

{
  "_id" : ObjectId("5c3ad7b14dc12d548a3b1da7"),
  "Song Name" : "Kannana Kanne",
  "Film" : "Viswasam",
  "Music Director" : "D.imman",
  "Singer" : "Sid Sriram"
}
> db.songdetails.find({}, {"Singer":1, id:0}).pretty()
{
  "Singer" : "Shankar mahadevan" }
{
  "Singer" : "Unnikrishnan,Anuradha Sriram" }
{
  "Singer" : "Hariharan,Sadhana Sargam" }
{
  "Singer" : "Hariharan" }
{
  "Singer" : "Sid Sriram" }
> <>>
```