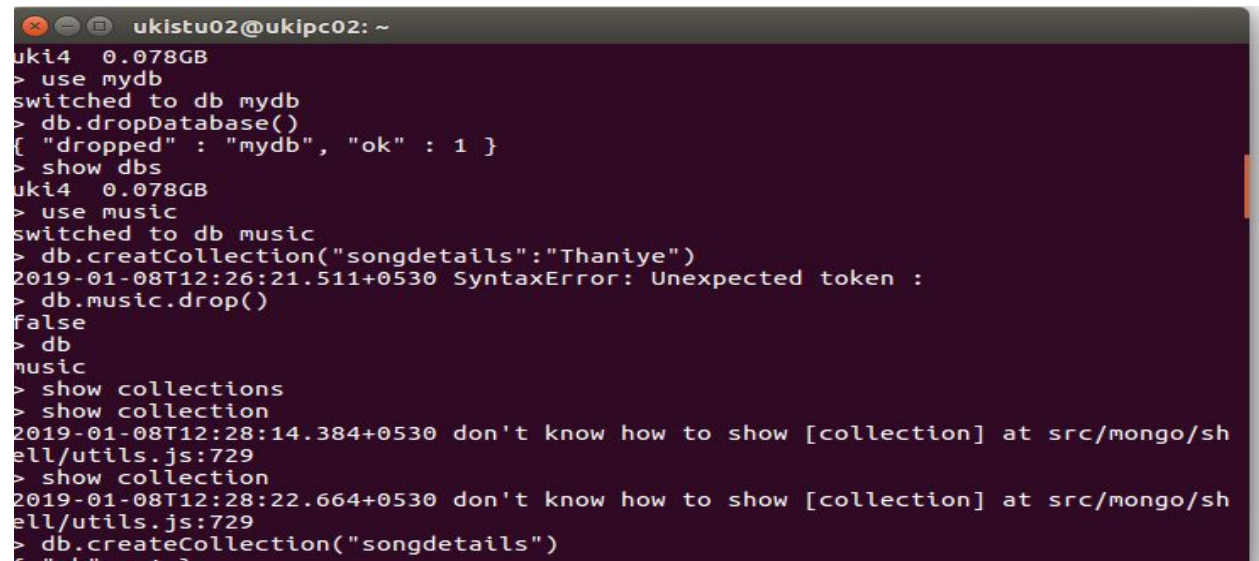


1. Create a Database called music ?

ANS: >use music

Screen shot :

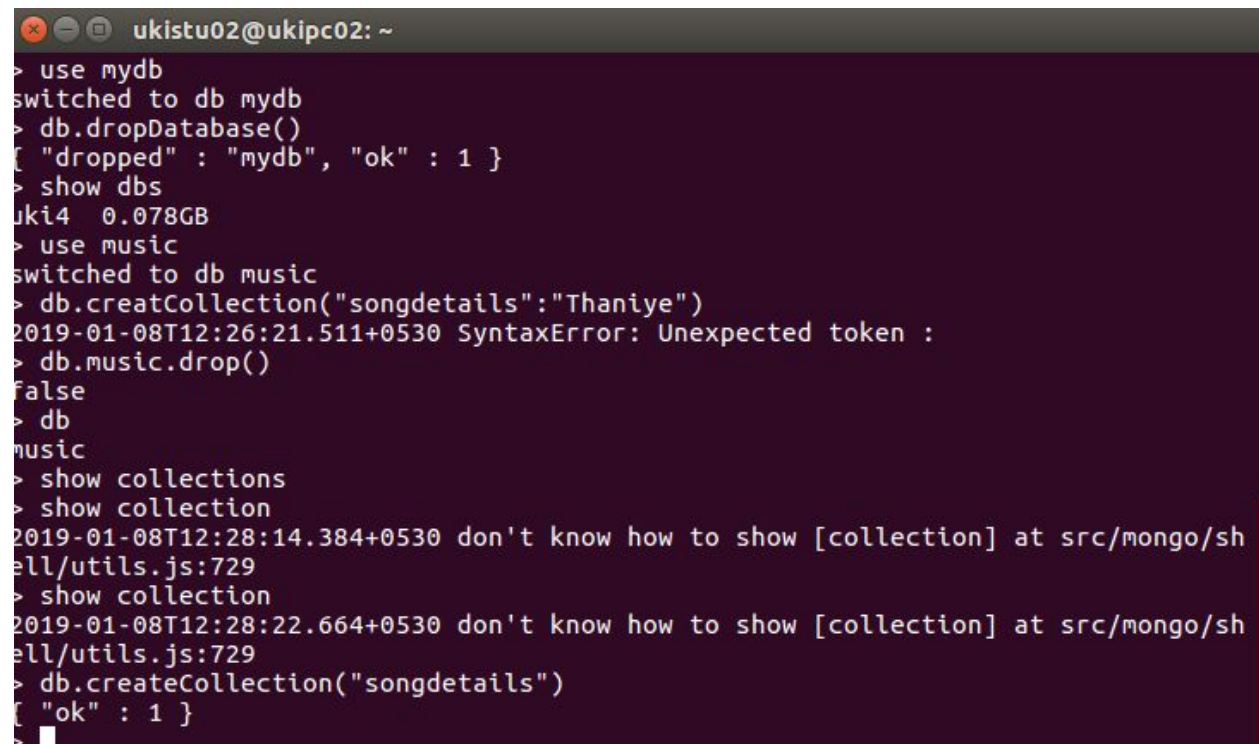


```
ukistu02@ukipc02: ~
uki4 0.078GB
> use mydb
switched to db mydb
> db.dropDatabase()
{ "dropped" : "mydb", "ok" : 1 }
> show dbs
uki4 0.078GB
> use music
switched to db music
> db.createCollection("songdetails":"Thaniye")
2019-01-08T12:26:21.511+0530 SyntaxError: Unexpected token :
> db.music.drop()
false
> db
music
> show collections
> show collection
2019-01-08T12:28:14.384+0530 don't know how to show [collection] at src/mongo/shell/utils.js:729
> show collection
2019-01-08T12:28:22.664+0530 don't know how to show [collection] at src/mongo/shell/utils.js:729
> db.createCollection("songdetails")
{ "ok" : 1 }
```

2. Create a collection called song details?

ANS: > **db.createCollection("songdetails")**

Screen shot :



```
ukistu02@ukipc02: ~
> use mydb
switched to db mydb
> db.dropDatabase()
{ "dropped" : "mydb", "ok" : 1 }
> show dbs
uki4 0.078GB
> use music
switched to db music
> db.createCollection("songdetails":"Thaniye")
2019-01-08T12:26:21.511+0530 SyntaxError: Unexpected token :
> db.music.drop()
false
> db
music
> show collections
> show collection
2019-01-08T12:28:14.384+0530 don't know how to show [collection] at src/mongo/shell/utils.js:729
> show collection
2019-01-08T12:28:22.664+0530 don't know how to show [collection] at src/mongo/shell/utils.js:729
> db.createCollection("songdetails")
{ "ok" : 1 }
```

3. Create the above 5 song documents?

ANS:

```

> db.songdetails.insert({"Song Name":"Thaniye
Thananthaniye","Film":"Rhythm","Music
Director":"A.R.Rahman","Singer":"Shankar mahadevan"})

> db.songdetails.insert({"Song Name":"Evano Oruvan","Film":"Alai
Payuthey","Music Director":"A.R.Rahman","Singer":"Swarnalatha"})

> db.songdetails.insert({"Song Name":"Roja Poonthottam","Film":"Kannukkul
Nilavu","Music Director":"Ilaiyaraaja","Singer":"Unnikrishnan,Anuradha Sriram"})

> db.songdetails.insert({"Song Name":"Vennilavae Vennilavae
Vinnaitaandi","Film":"Minsara Kanavu","Music
Director":"A.R.Rahman","Singer":"Hariharan,Sadhana Sargam"})

> db.songdetails.insert({"Song Name":"Sollamal Thottu Chellum
Thendral","Film":"Dheena","Music Director":"Yuvan Shankar
Raja","Singer":"Hariharan"})

```

Screen shot :

```

ukistu02@ukipc02: ~
> db.songdetails.insert({"Song Name":"Thaniye Thananthaniye","Film":"Rhythm","Music Director":"A.R.Rahman","Singer":"Shankar mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344d8dcfb23ea937788a57"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
> ^C
bye
ukistu02@ukipc02:~$ sudo mongo
MongoDB shell version: 2.6.10
connecting to: test
> show dbs
music  0.078GB
uki4   0.078GB
> use music
switched to db music
> show collections
songdetails
system.indexes

```

4. List all documents created?

ANS:

```

> db.songdetails.find().pretty()
{

```

```
"_id" : ObjectId("5c344d8dcfb23ea937788a57"),
"Song Name" : "Thaniye Thananthaniye",
"Film" : "Rhythm",
"Music Director" : "A.R.Rahman",
"Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344f288ce35dd173b1debc"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai Payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c3451358ce35dd173b1debd"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Illaiyaraaja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "_id" : ObjectId("5c3452388ce35dd173b1debe"),
  "Song Name" : "Vennilavae Vennilavae Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana Sargam"
}
{
  "_id" : ObjectId("5c3452a78ce35dd173b1debf"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
```

Screen shot :

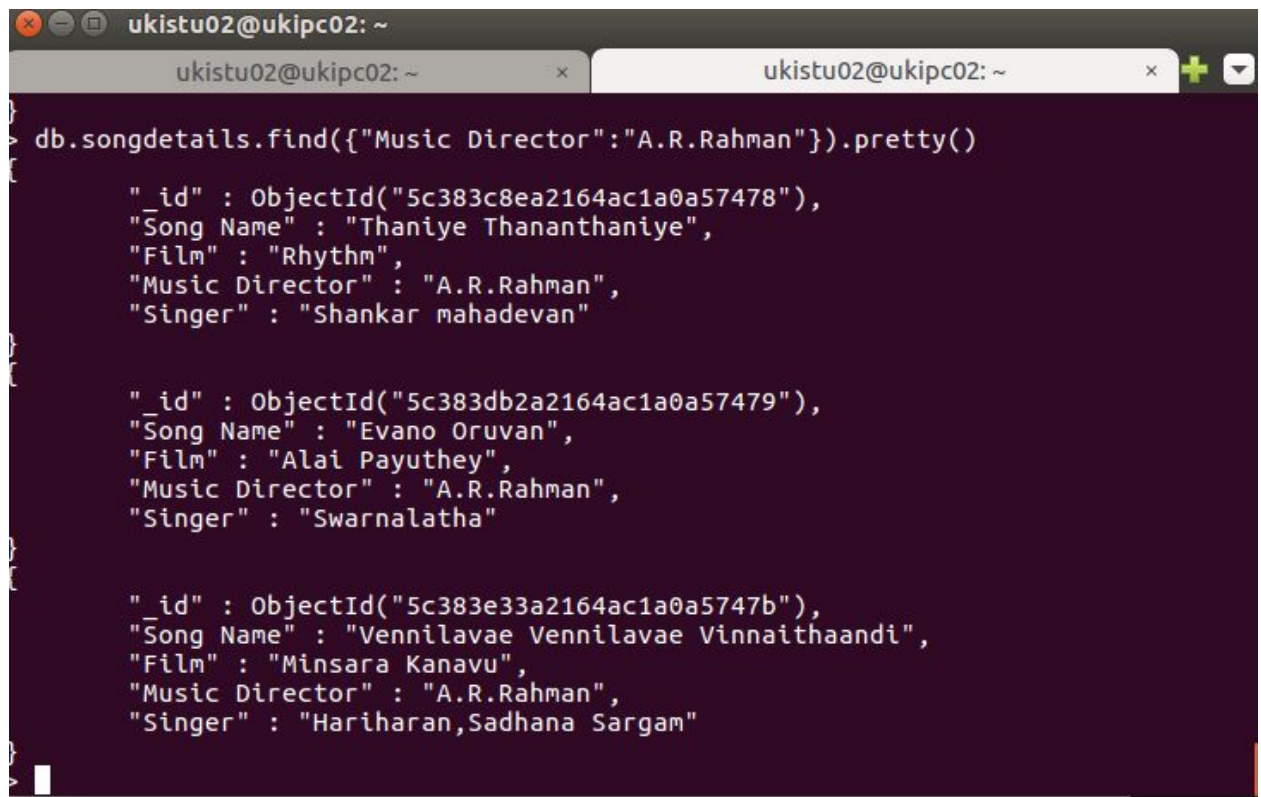
```
ukistu02@ukipc02: ~  
{  
  "_id" : ObjectId("5c344d8dcfb23ea937788a57"),  
  "Song Name" : "Thaniye Thananthaniye",  
  "Film" : "Rhythm",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Shankar mahadevan"  
}  
{  
  "_id" : ObjectId("5c344f288ce35dd173b1debc"),  
  "Song Name" : "Evano Oruvan",  
  "Film" : "Alai Payuthey",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Swarnalatha"  
}  
{  
  "_id" : ObjectId("5c3451358ce35dd173b1debd"),  
  "Song Name" : "Roja Poonthottam",  
  "Film" : "Kannukkul Nilavu",  
  "Music Director" : "Illaiyaraaja",  
  "Singer" : "Unnikrishnan,Anuradha Sriram"  
}  
{  
  "_id" : ObjectId("5c3452388ce35dd173b1debe"),  
  "Song Name" : "Vennilavae Vennilavae Vinnaithaandi",
```

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

ANS:

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

Screenshot :

A terminal window with a dark purple background. The title bar shows 'ukistu02@ukipc02: ~'. There are two tabs, both labeled 'ukistu02@ukipc02: ~'. The terminal displays a MongoDB query and its results in a pretty-printed JSON format. The query is 'db.songdetails.find({"Music Director": "A.R.Rahman"}).pretty()'. The results are an array of three objects, each representing a song. Each object contains fields for '_id', 'Song Name', 'Film', 'Music Director', and 'Singer'. The first song is 'Thaniye Thananthaniye' from the film 'Rhythm', sung by 'Shankar mahadevan'. The second song is 'Evano Oruvan' from the film 'Alai Payuthey', sung by 'Swarnalatha'. The third song is 'Vennilavae Vennilavae Vinnaihaandi' from the film 'Minsara Kanavu', sung by 'Hariharan, Sadhana Sargam'.

```
> db.songdetails.find({"Music Director": "A.R.Rahman"}).pretty()
{
  "_id" : ObjectId("5c383c8ea2164ac1a0a57478"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}

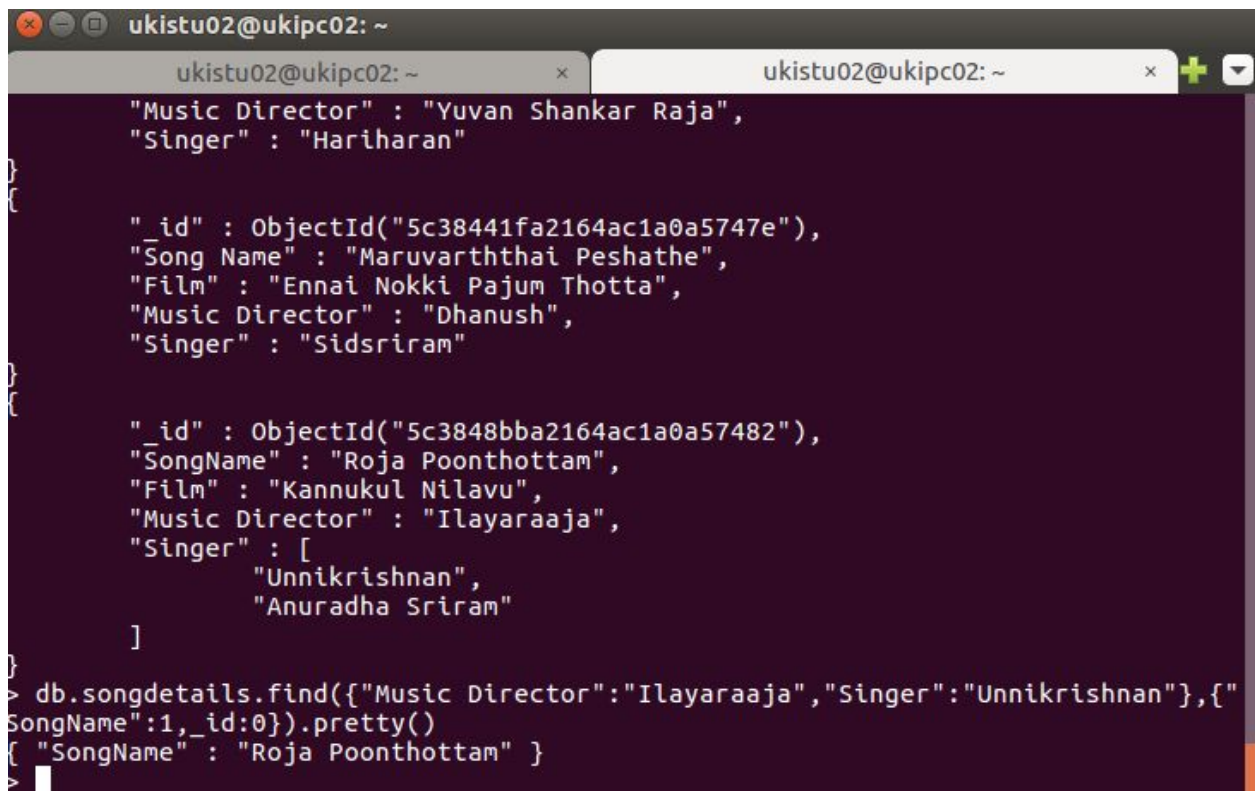
{
  "_id" : ObjectId("5c383db2a2164ac1a0a57479"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai Payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}

{
  "_id" : ObjectId("5c383e33a2164ac1a0a5747b"),
  "Song Name" : "Vennilavae Vennilavae Vinnaihaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan, Sadhana Sargam"
}
```

6. List ilaiyaraaja songs sung by Unnikrishnan?

ANS: `db.songsdetails.insert({"SongName": "Raja Poonthottam", "Film": "Kannukul Nilavu", "Music Director": "Ilaiyaraaja", "Singer": ["Unnikrishnan", "Anuradha Sriram"]})`

Screen shot:

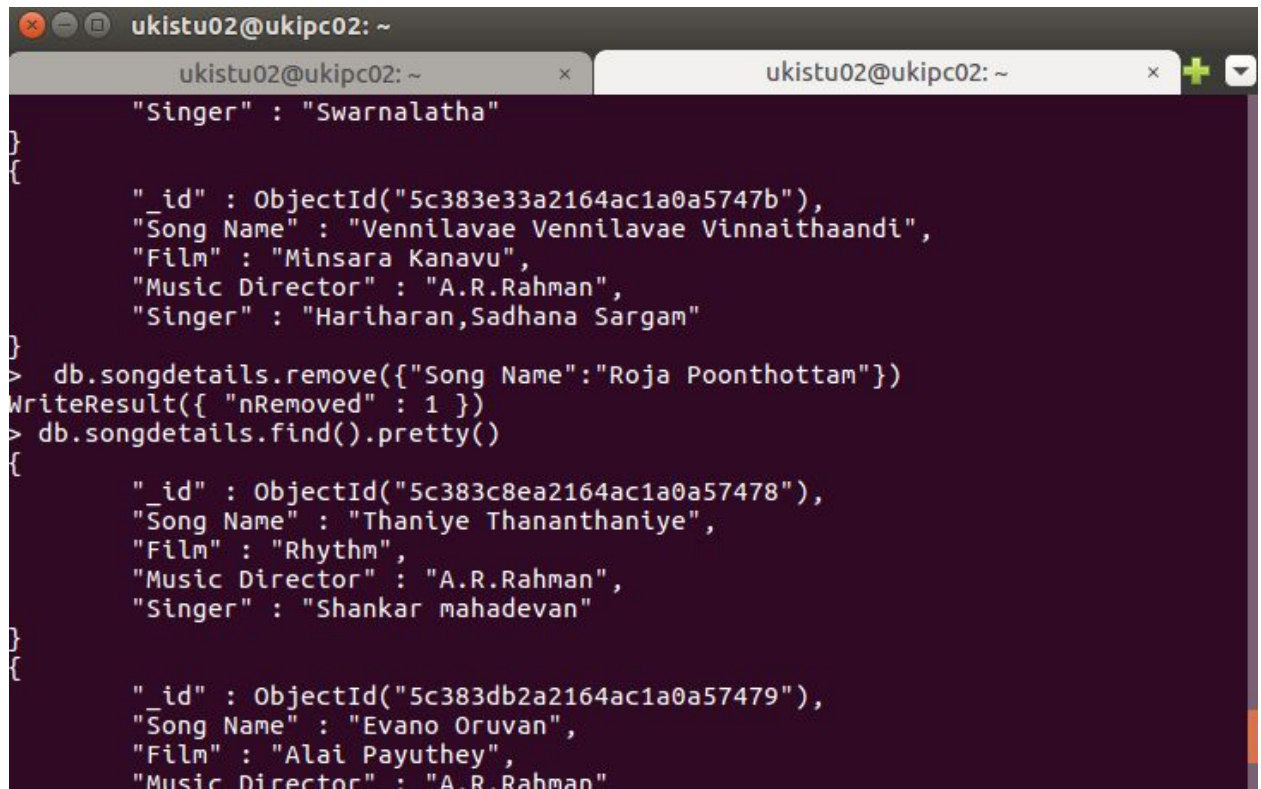
A terminal window with a dark purple background and white text. The window title is 'ukistu02@ukipc02: ~'. It shows the output of a MongoDB query. The output is a JSON array of three song objects. The first object has 'Music Director' as 'Yuvan Shankar Raja' and 'Singer' as 'Hariharan'. The second object has 'Song Name' as 'Maruvarththai Peshathe', 'Film' as 'Ennai Nokki Pajum Thotta', 'Music Director' as 'Dhanush', and 'Singer' as 'Sidsriram'. The third object has 'SongName' as 'Roja Poonthottam', 'Film' as 'Kannukul Nilavu', 'Music Director' as 'Ilayaraaja', and 'Singer' as an array containing 'Unnikrishnan' and 'Anuradha Sriram'. Below the array, a MongoDB command is entered: '> db.songdetails.find({"Music Director":"Ilayaraaja","Singer":"Unnikrishnan"}, {"SongName":1,_id:0}).pretty()'. The output of this command is shown: '{ "SongName" : "Roja Poonthottam" }'.

```
ukistu02@ukipc02: ~
{
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
{
  "_id" : ObjectId("5c38441fa2164ac1a0a5747e"),
  "Song Name" : "Maruvarththai Peshathe",
  "Film" : "Ennai Nokki Pajum Thotta",
  "Music Director" : "Dhanush",
  "Singer" : "Sidsriram"
}
{
  "_id" : ObjectId("5c3848bba2164ac1a0a57482"),
  "SongName" : "Roja Poonthottam",
  "Film" : "Kannukul Nilavu",
  "Music Director" : "Ilayaraaja",
  "Singer" : [
    "Unnikrishnan",
    "Anuradha Sriram"
  ]
}
> db.songdetails.find({"Music Director":"Ilayaraaja","Singer":"Unnikrishnan"}, {"
SongName":1,_id:0}).pretty()
{ "SongName" : "Roja Poonthottam" }
```

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

ANS: > **db.songdetails.remove({"Song Name":"Roja Poonthottam"}).pretty()**

Screenshot:

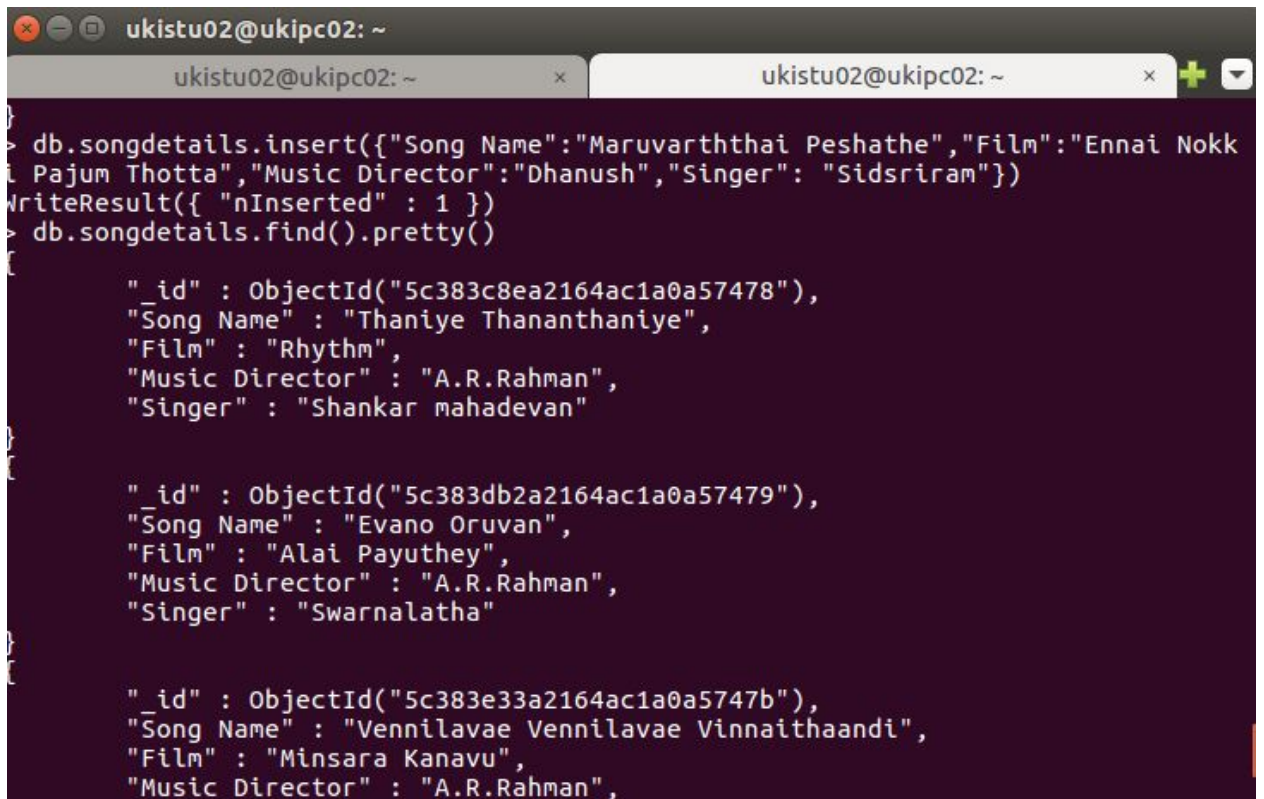


```
ukistu02@ukipc02: ~  
ukistu02@ukipc02: ~  
ukistu02@ukipc02: ~  
"Singer" : "Swarnalatha"  
}  
{  
  "_id" : ObjectId("5c383e33a2164ac1a0a5747b"),  
  "Song Name" : "Vennilavae Vennilavae Vinnaihaandi",  
  "Film" : "Minsara Kanavu",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Hariharan,Sadhana Sargam"  
}  
> db.songdetails.remove({"Song Name":"Roja Poonthottam"})  
WriteResult({ "nRemoved" : 1 })  
> db.songdetails.find().pretty()  
{  
  "_id" : ObjectId("5c383c8ea2164ac1a0a57478"),  
  "Song Name" : "Thaniye Thananthaniye",  
  "Film" : "Rhythm",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Shankar mahadevan"  
}  
{  
  "_id" : ObjectId("5c383db2a2164ac1a0a57479"),  
  "Song Name" : "Evano Oruvan",  
  "Film" : "Alai Payuthey",  
  "Music Director" : "A.R.Rahman"
```

8.Add new song which is your favourite?

ANS: > **db.songdetails.insert({"Song Name":"Maruvarththai Peshathe","Film":"Ennai Nokki Pajum Thotta","Music Director":"Dhanush","Singer": "Sidsriram"})**

Screenshot :

A terminal window with a dark purple background and white text. The window title is 'ukistu02@ukipc02: ~'. The terminal shows a series of MongoDB commands and their output. The commands are: 1. 'db.songdetails.insert({"Song Name": "Maruvarththai Peshathe", "Film": "Ennai Nokk", "Music Director": "Dhanush", "Singer": "Sidsriram"})' followed by 'writeResult({ "nInserted" : 1 })'. 2. 'db.songdetails.find().pretty()'. The output shows three documents in a pretty-printed JSON format. The first document has '_id' as '5c383c8ea2164ac1a0a57478', 'Song Name' as 'Thaniye Thananthaniye', 'Film' as 'Rhythm', 'Music Director' as 'A.R.Rahman', and 'Singer' as 'Shankar mahadevan'. The second document has '_id' as '5c383db2a2164ac1a0a57479', 'Song Name' as 'Evano Oruvan', 'Film' as 'Alai Payuthey', 'Music Director' as 'A.R.Rahman', and 'Singer' as 'Swarnalatha'. The third document has '_id' as '5c383e33a2164ac1a0a5747b', 'Song Name' as 'Vennilavae Vennilavae Vinnaiithaandi', 'Film' as 'Minsara Kanavu', and 'Music Director' as 'A.R.Rahman'.

```
> db.songdetails.insert({"Song Name": "Maruvarththai Peshathe", "Film": "Ennai Nokk", "Music Director": "Dhanush", "Singer": "Sidsriram"})
writeResult({ "nInserted" : 1 })
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c383c8ea2164ac1a0a57478"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}

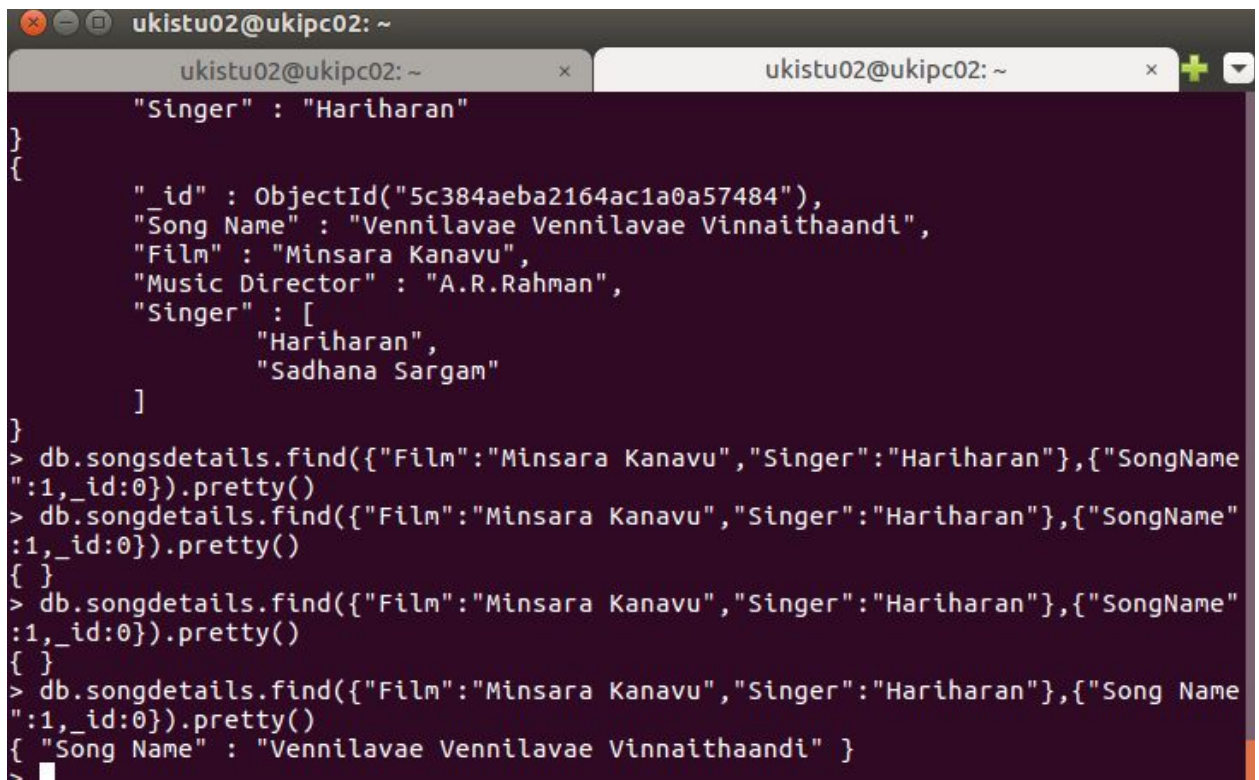
{
  "_id" : ObjectId("5c383db2a2164ac1a0a57479"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai Payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}

{
  "_id" : ObjectId("5c383e33a2164ac1a0a5747b"),
  "Song Name" : "Vennilavae Vennilavae Vinnaiithaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
}
```

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

ANS: `db.songdetails.find({"Film": "Minsara Kanavu", "Singer": "Hariharan"}, {"Song Name": 1, "_id": 0}).pretty()`

Screenshot :

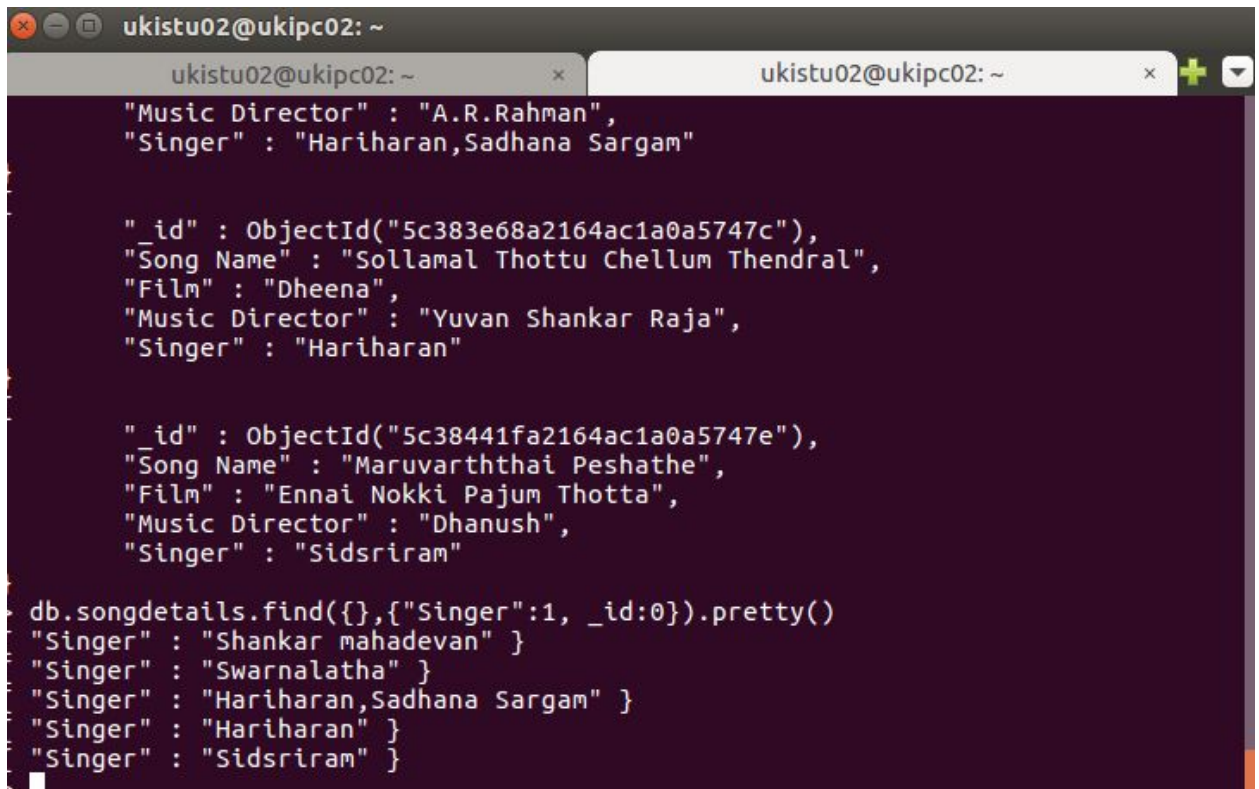


```
ukistu02@ukipc02: ~  
ukistu02@ukipc02: ~  
ukistu02@ukipc02: ~  
    "Singer" : "Hariharan"  
  }  
  {  
    "_id" : ObjectId("5c384aeba2164ac1a0a57484"),  
    "Song Name" : "Vennilavae Vennilavae Vinnaihaandi",  
    "Film" : "Minsara Kanavu",  
    "Music Director" : "A.R.Rahman",  
    "Singer" : [  
      "Hariharan",  
      "Sadhana Sargam"  
    ]  
  }  
}> db.songsdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"SongName":1,_id:0}).pretty()  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"SongName":1,_id:0}).pretty()  
{ }  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"SongName":1,_id:0}).pretty()  
{ }  
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Song Name":1,_id:0}).pretty()  
{ "Song Name" : "Vennilavae Vennilavae Vinnaihaandi" }  
>
```

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

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

Screen shot:



```
ukistu02@ukipc02: ~  
ukistu02@ukipc02: ~  
"Music Director" : "A.R.Rahman",  
"Singer" : "Hariharan,Sadhana Sargam"  
  
  "_id" : ObjectId("5c383e68a2164ac1a0a5747c"),  
  "Song Name" : "Sollamal Thottu Chellum Thendral",  
  "Film" : "Dheena",  
  "Music Director" : "Yuvan Shankar Raja",  
  "Singer" : "Hariharan"  
  
  "_id" : ObjectId("5c38441fa2164ac1a0a5747e"),  
  "Song Name" : "Maruvarththai Peshathe",  
  "Film" : "Ennai Nokki Pajum Thotta",  
  "Music Director" : "Dhanush",  
  "Singer" : "Sidsriram"  
  
db.songdetails.find({},{"Singer":1, _id:0}).pretty()  
"Singer" : "Shankar mahadevan" }  
"Singer" : "Swarnalatha" }  
"Singer" : "Hariharan,Sadhana Sargam" }  
"Singer" : "Hariharan" }  
"Singer" : "Sidsriram" }
```