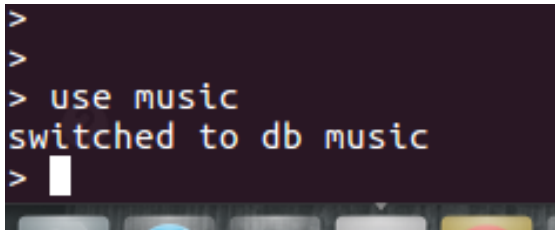


1. Create a Database called music?

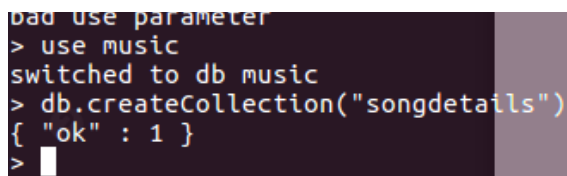
```
use music
switched to db music
```



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

2. Create a collection called songdetails?

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



```
bad use parameter
> use music
switched to db music
> db.createCollection("songdetails")
{ "ok" : 1 }
> 
```

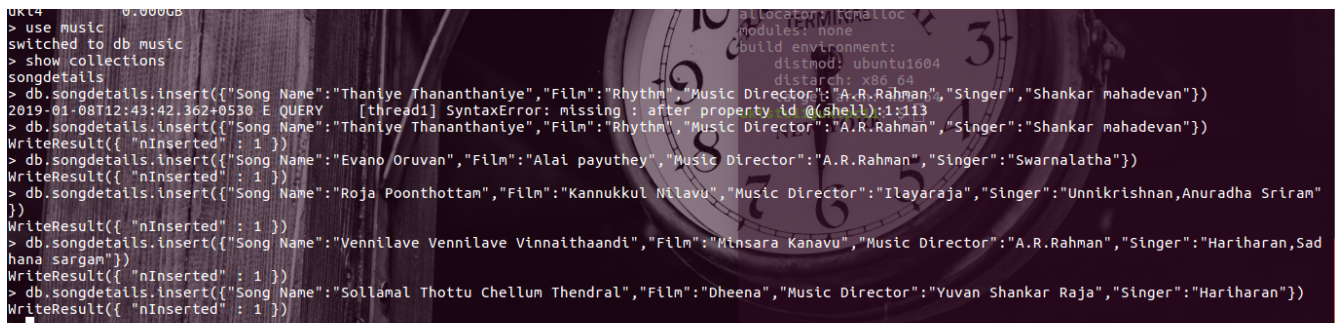
3. Create the above 5 song documents?

```
> db.songdetails.insert({"Song Name":"Thaniye
Thananthaniye", "Film":"Rhythm", "Music
Director":"A.R.Rahman", "Singer","Shankar mahadevan"})
2019-01-08T12:43:42.362+0530 E QUERY [thread1]
SyntaxError: missing : after property id @(shell):1:113
> 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":"Ilayaraja", "Singer":"Unnikrishnan, Anuradha
Sriram"})
```

```

WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Vennilave Vennilave
Vinnaihaandi","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":"Yuwan
Shankar Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })

```



```

0.000000
> use music
switched to db music
> show collections
songdetails
> db.songdetails.insert({"Song Name":"Thaniye Thananthaniye","Film":"Rhythm","Music Director":"A.R.Rahman","Singer":"Shankar mahadevan"})
2019-01-08T12:43:42.362+0530 E QUERY [thread1] SyntaxError: missing : after property id @(<shell>):1:113
> 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":"Ilayaraja","Singer":"Unnikrishnan,Anuradha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Song Name":"Vennilave Vennilave Vinnaihaandi","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":"Yuwan Shankar Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })

```

#### 4. List all documents created?

```

db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344df0c30f3577d1748687"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilayaraja",

```

```

    "Singer" : "Unnikrishnan,Anuradha Sriram"
  }
}

  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
}

  "_id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}

```

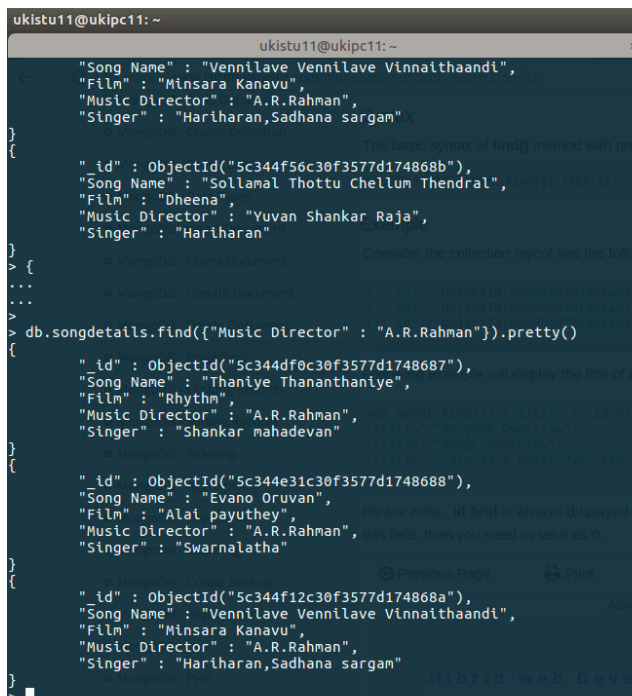
```

ukistu11@ukipc11: ~
> db.songdetails.insert({"Song Name":"Sollamal Thottu Chellum Thendral", "Film":"Dheena", "Music Director":"Yuvan Shankar Raja", "Singer":"Hariharan"})
WriteResult({"nInserted": 1})
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344df0c30f3577d1748687"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Raja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilayaraja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
{
  "_id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
>

```

5) list A.R.Rahman songs?

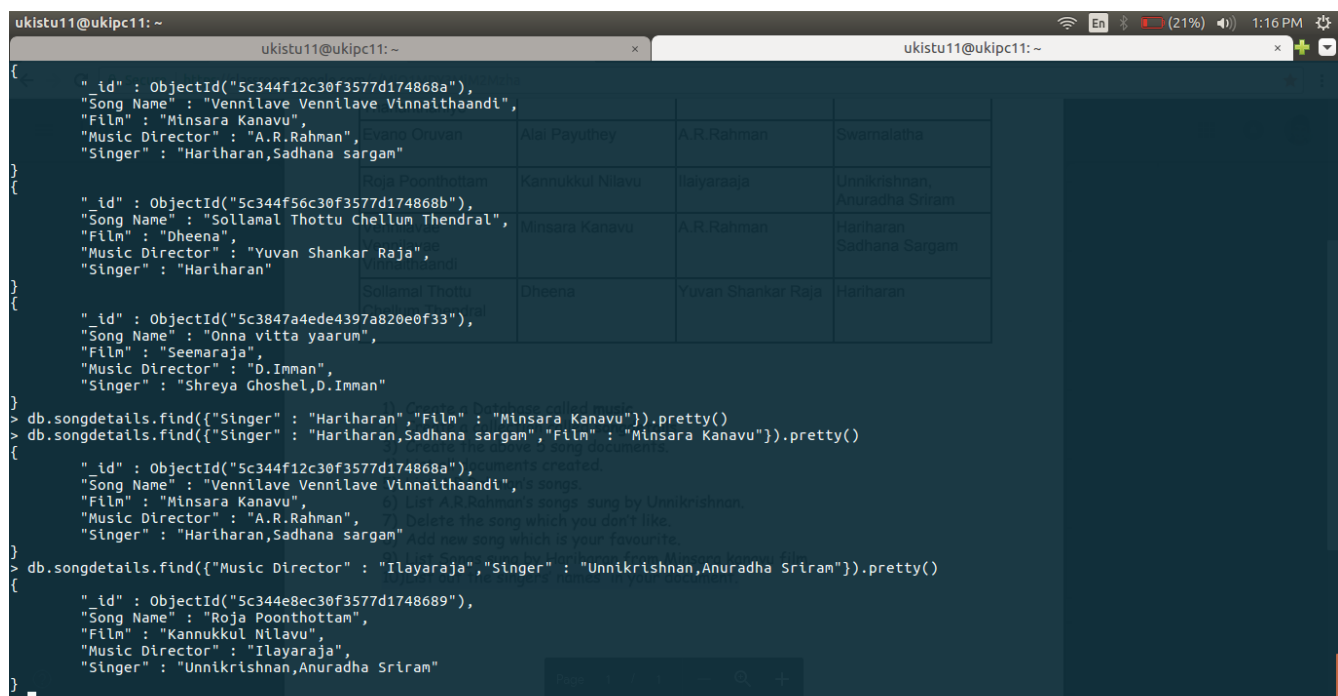
```
db.songdetails.find({"Music Director" :
"A.R.Rahman"}).pretty()
{
  "_id" : ObjectId("5c344df0c30f3577d1748687"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaithaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
```



```
ukistu11@ukipc11: ~
ukistu11@ukipc11: ~
{
  "Song Name" : "Vennilave Vennilave Vinnaithaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
}
{
  "_id" : ObjectId("5c344f0c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
}
> {
  "Song Name" : "Vennilave Vennilave Vinnaithaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
}
> db.songdetails.find({"Music Director" : "A.R.Rahman"}).pretty()
{
  "_id" : ObjectId("5c344df0c30f3577d1748687"),
  "Song Name" : "Thaniye Thananthaniye",
  "Film" : "Rhythm",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Shankar mahadevan"
}
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave 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({"Music Director" :  
"Ilayaraja","Singer" : "Unnikrishnan,Anuradha  
Sriram"}).pretty()  
{  
  "_id" : ObjectId("5c344e8ec30f3577d1748689"),  
  "Song Name" : "Roja Poonthottam",  
  "Film" : "Kannukkul Nilavu",  
  "Music Director" : "Ilayaraja",  
  "Singer" : "Unnikrishnan,Anuradha Sriram"  
}
```



The screenshot shows a terminal window with the following content:

```
ukistu11@ukipc11: ~  
ukistu11@ukipc11: ~  
ukistu11@ukipc11: ~  
{  
  "id" : ObjectId("5c344f12c30f3577d174868a"),  
  "Song Name" : "Vennilave Vennilave Vinnaitthaandi",  
  "Film" : "Minsara Kanavu",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Hariharan,Sadhana sargam"  
}  
{  
  "id" : ObjectId("5c344f56c30f3577d174868b"),  
  "Song Name" : "Sollamal Thottu Chellum Thendral",  
  "Film" : "Dheena",  
  "Music Director" : "Yuvan Shankar Raja",  
  "Singer" : "Hariharan"  
}  
{  
  "id" : ObjectId("5c3847a4ede4397a820e0f33"),  
  "Song Name" : "Onna vitta yaarum",  
  "Film" : "Seemaraja",  
  "Music Director" : "D.Imman",  
  "Singer" : "Shreya Ghoshel,D.Imman"  
}  
> db.songdetails.find({"Singer" : "Hariharan","Film" : "Minsara Kanavu"}).pretty()  
> db.songdetails.find({"Singer" : "Hariharan,Sadhana sargam","Film" : "Minsara Kanavu"}).pretty()  
{  
  "id" : ObjectId("5c344f12c30f3577d174868a"),  
  "Song Name" : "Vennilave Vennilave Vinnaitthaandi",  
  "Film" : "Minsara Kanavu",  
  "Music Director" : "A.R.Rahman",  
  "Singer" : "Hariharan,Sadhana sargam"  
}  
> db.songdetails.find({"Music Director" : "Ilayaraja","Singer" : "Unnikrishnan,Anuradha Sriram"}).pretty()  
{  
  "id" : ObjectId("5c344e8ec30f3577d1748689"),  
  "Song Name" : "Roja Poonthottam",  
  "Film" : "Kannukkul Nilavu",  
  "Music Director" : "Ilayaraja",  
  "Singer" : "Unnikrishnan,Anuradha Sriram"  
}
```

Song Name	Film	Music Director	Singer
Vennilave Vennilave Vinnaitthaandi	Minsara Kanavu	A.R.Rahman	Hariharan, Sadhana Sargam
Roja Poonthottam	Kannukkul Nilavu	Ilayaraja	Unnikrishnan, Anuradha Sriram
Sollamal Thottu Chellum Thendral	Dheena	Yuvan Shankar Raja	Hariharan
Onna vitta yaarum	Seemaraja	D.Imman	Shreya Ghoshel, D.Imman

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

```
db.songdetails.remove({"Song Name" : "Thaniye  
Thananthaniye"})  
WriteResult({ "nRemoved" : 1 })
```

```
ukistu11@ukipc11: ~
> db.songdetails.remove({"Song Name" : "Thaniye Thananthaniye"})
WriteResult({ "nRemoved" : 1 })
> db.songdetails.find()
{ "_id" : ObjectId("5c344e31c30f3577d1748688"), "Song Name" : "Evano Oruvan", "Film" : "Alai payuthey", "Music Director" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c344e8ec30f3577d1748689"), "Song Name" : "Roja Poonthottam", "Film" : "Kannukkul Nilavu", "Music Director" : "Ilayaraja", "Singer" : "Unnikrishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f12c30f3577d174868a"), "Song Name" : "Vennilave Vennilave Vinnaitaandi", "Film" : "Minsara Kanavu", "Music Director" : "A.R.Rahman", "Singer" : "Hariharan,Sadhana sargam" }
{ "_id" : ObjectId("5c344f56c30f3577d174868b"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan Shankar Raja", "Singer" : "Hariharan" }
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilayaraja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
{
  "_id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
```

8) Add new song which is your favourite?

```
db.songdetails.insert({"Song Name":"Onna vitta
yaarum","Film":"Seemaraja","Music
Director":"D.Imman","Singer":"Shreya Ghoshel,D.Imman"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilayaraja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
```

```

}
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaihaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
{
  "_id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
{
  "_id" : ObjectId("5c3846c7ede4397a820e0f32"),
  "Song Name" : "Onna vitta yaarum",
  "Film" : "Seemaraja",
  "Music Director" : "D.Imman",
  "Singer" : "Shreya Ghoshel,D.Imman"
}
}

```

```

ukistu11@ukipc11: ~
ukistu11@ukipc11: ~
ukistu11@ukipc11: ~
> db.songdetails.insert({"Song Name":"Onna vitta yaarum","Film":"Seemaraja","Music Director":"D.Imman","Singer":"Shreya Ghoshel,D.Imman"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.find().pretty()
{
  "_id" : ObjectId("5c344e31c30f3577d1748688"),
  "Song Name" : "Evano Oruvan",
  "Film" : "Alai payuthey",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Swarnalatha"
}
{
  "_id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Roja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilayaraja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaihaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
{
  "_id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
{
  "_id" : ObjectId("5c3846c7ede4397a820e0f32"),
  "Song Name" : "Onna vitta yaarum",
  "Film" : "Seemaraja",
  "Music Director" : "D.Imman",
  "Singer" : "Shreya Ghoshel,D.Imman"
}
{
  "_id" : ObjectId("5c3845feede4397a820e0f31"),
  "Song Name" : "Onna vitta yaarum"
}
{
  "_id" : ObjectId("5c3846c7ede4397a820e0f32"),
  "Song Name" : "Onna vitta yaarum",

```



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

```
db.songdetails.find({"Singer" : "Hariharan,Sadhana
sargam","Film" : "Minsara Kanavu"}).pretty()
{
  "_id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
```

The screenshot shows a terminal window with the following content:

```
ukistu11@ukipc11: ~
ukistu11@ukipc11: ~
}
{
  "id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Raja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilaiyaraaja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
  "id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
{
  "id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
{
  "id" : ObjectId("5c3847a4ede4397a820e0f33"),
  "Song Name" : "Onna vitta yaarum",
  "Film" : "Seemaraja",
  "Music Director" : "D.Imman",
  "Singer" : "Shreya Ghoshel,D.Imman"
}
> db.songdetails.find({"Singer" : "Hariharan","Film" : "Minsara Kanavu"}).pretty()
> db.songdetails.find({"Singer" : "Hariharan,Sadhana sargam","Film" : "Minsara Kanavu"}).pretty()
{
  "id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
```

Raja Poonthottam	Kannukkul Nilavu	Ilaiyaraaja	Unnikrishnan,Anuradha Sriram
Vennilave	Minsara Kanavu	A.R.Rahman	Hariharan,Sadhana sargam
Sollamal Thottu	Dheena	Yuvan Shankar Raja	Hariharan

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

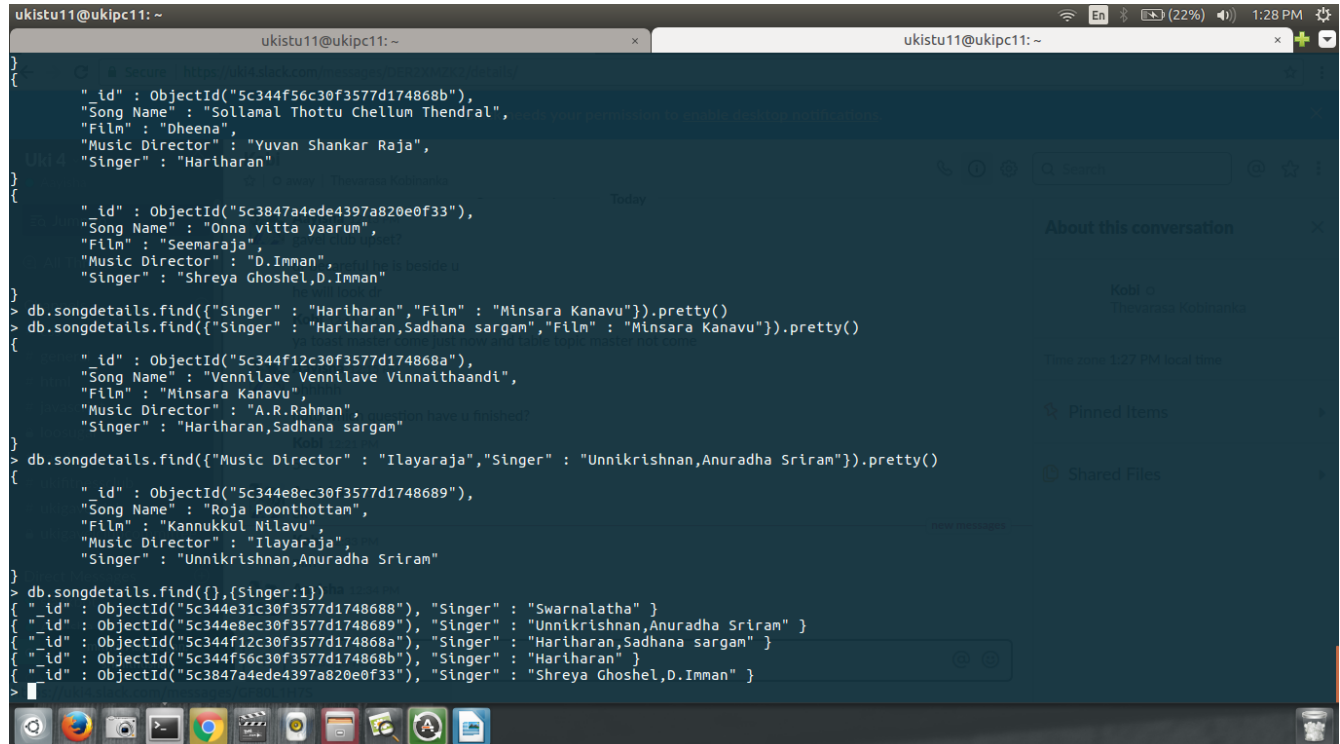
```
db.songdetails.find({}, {Singer:1})
{ "_id" : ObjectId("5c344e31c30f3577d1748688"), "Singer" :
"Swarnalatha" }
```



```

{ "_id" : ObjectId("5c344e8ec30f3577d1748689"), "Singer" :
"Unnikrishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f12c30f3577d174868a"), "Singer" :
"Hariharan,Sadhana sargam" }
{ "_id" : ObjectId("5c344f56c30f3577d174868b"), "Singer" :
"Hariharan" }
{ "_id" : ObjectId("5c3847a4ede4397a820e0f33"), "Singer" :
"Shreya Ghoshel,D.Imman" }

```



```

ukistu11@ukipc11: ~
{
  "id" : ObjectId("5c344f56c30f3577d174868b"),
  "Song Name" : "Sollamal Thottu Chellum Thendral",
  "Film" : "Dheena",
  "Music Director" : "Yuvan Shankar Raja",
  "Singer" : "Hariharan"
}
{
  "id" : ObjectId("5c3847a4ede4397a820e0f33"),
  "Song Name" : "Onna vitta yaarum",
  "Film" : "Seemaraja",
  "Music Director" : "D.Imman",
  "Singer" : "Shreya Ghoshel,D.Imman"
}
> db.songdetails.find({"Singer" : "Hariharan","Film" : "Minsara Kanavu"}).pretty()
> db.songdetails.find({"Singer" : "Hariharan,Sadhana sargam","Film" : "Minsara Kanavu"}).pretty()
{
  "id" : ObjectId("5c344f12c30f3577d174868a"),
  "Song Name" : "Vennilave Vennilave Vinnaitthaandi",
  "Film" : "Minsara Kanavu",
  "Music Director" : "A.R.Rahman",
  "Singer" : "Hariharan,Sadhana sargam"
}
> db.songdetails.find({"Music Director" : "Ilayaraja","Singer" : "Unnikrishnan,Anuradha Sriram"}).pretty()
{
  "id" : ObjectId("5c344e8ec30f3577d1748689"),
  "Song Name" : "Raja Poonthottam",
  "Film" : "Kannukkul Nilavu",
  "Music Director" : "Ilayaraja",
  "Singer" : "Unnikrishnan,Anuradha Sriram"
}
> db.songdetails.find({}, {Singer:1})
{ "_id" : ObjectId("5c344e31c30f3577d1748688"), "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c344e8ec30f3577d1748689"), "Singer" : "Unnikrishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344f12c30f3577d174868a"), "Singer" : "Hariharan,Sadhana sargam" }
{ "_id" : ObjectId("5c344f56c30f3577d174868b"), "Singer" : "Hariharan" }
{ "_id" : ObjectId("5c3847a4ede4397a820e0f33"), "Singer" : "Shreya Ghoshel,D.Imman" }

```