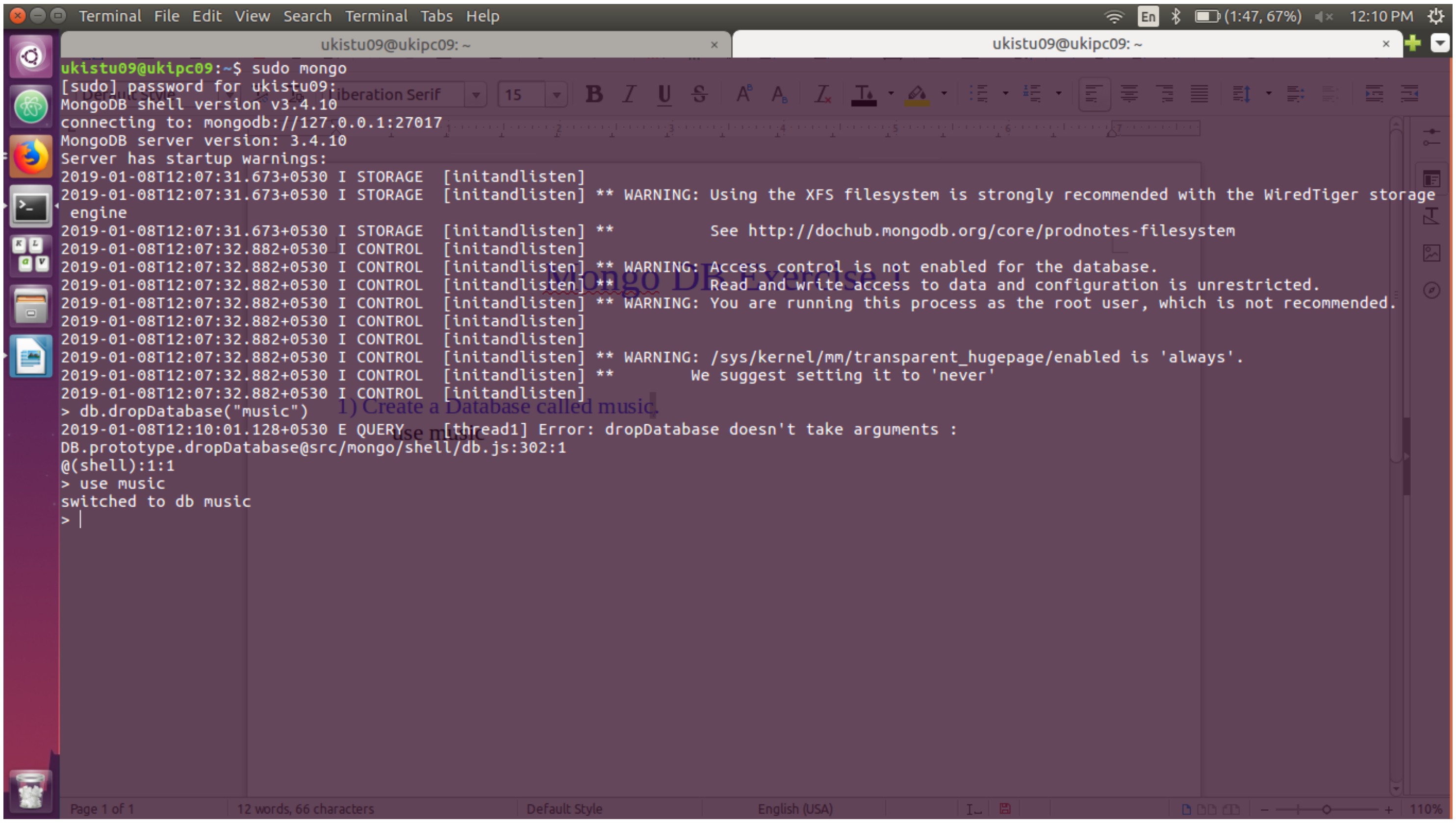
# Mongo DB Exercise 1

## 1) Create a Database called music.

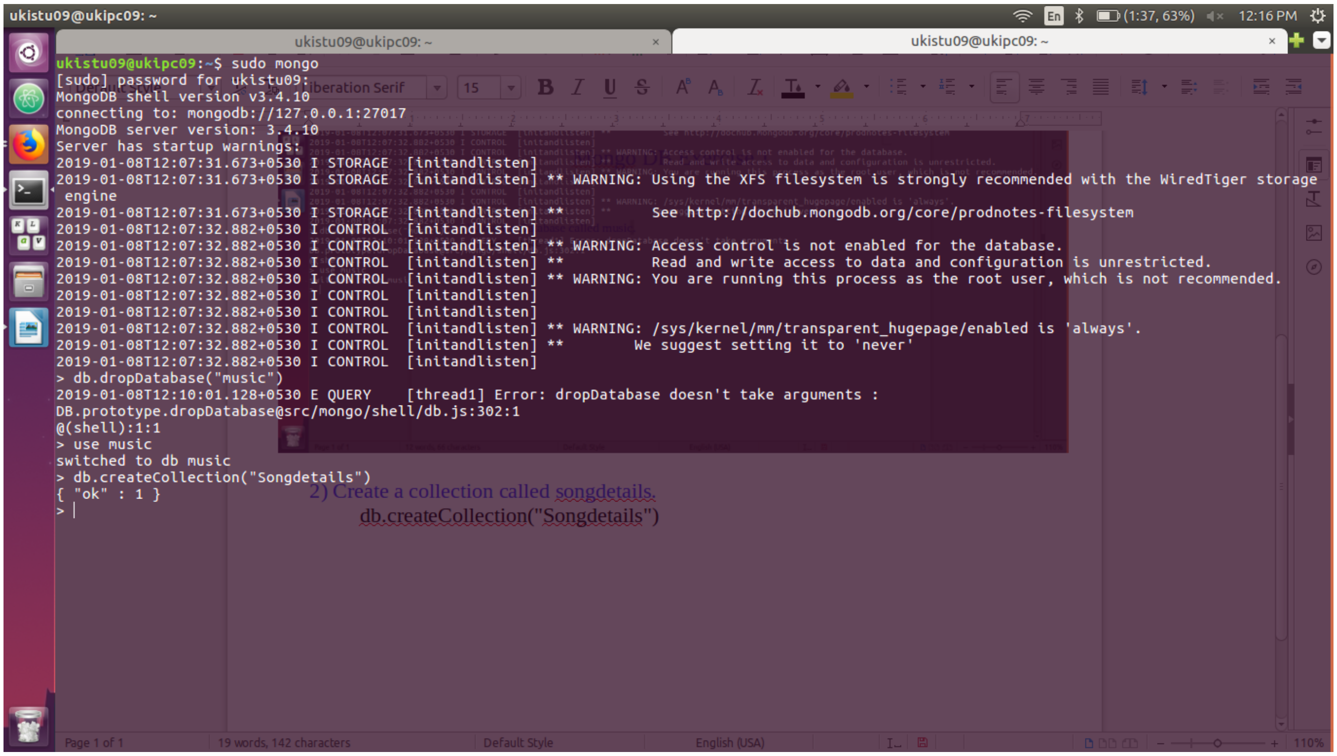
use music



```
ukistu09@ukipc09:~$ sudo mongo
[sudo] password for ukistu09:
MongoDB shell version v3.4.10
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.4.10
Server has startup warnings:
2019-01-08T12:07:31.673+0530 I STORAGE  [initandlisten]
2019-01-08T12:07:31.673+0530 I STORAGE  [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage
 engine
2019-01-08T12:07:31.673+0530 I STORAGE  [initandlisten] **          See http://dochub.mongodb.org/core/prodnotes-filesystem
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] **          Read and write access to data and configuration is unrestricted.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] ** WARNING: You are running this process as the root user, which is not recommended.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enabled is 'always'.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] **        We suggest setting it to 'never'
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
> db.dropDatabase("music")
2019-01-08T12:10:01.128+0530 E QUERY    [thread1] Error: dropDatabase doesn't take arguments :
DB.prototype.dropDatabase@src/mongo/shell/db.js:302:1
@(shell):1:1
> use music
switched to db music
> |
```

## 2) Create a collection called songdetails.

db.createCollection("Songdetails")



```
ukistu09@ukipc09:~$ sudo mongo
[sudo] password for ukistu09:
MongoDB shell version v3.4.10
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.4.10
Server has startup warnings:
2019-01-08T12:07:31.673+0530 I STORAGE  [initandlisten]
2019-01-08T12:07:31.673+0530 I STORAGE  [initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger storage
 engine
2019-01-08T12:07:31.673+0530 I STORAGE  [initandlisten] **          See http://dochub.mongodb.org/core/prodnotes-filesystem
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] ** WARNING: Access control is not enabled for the database.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] **          Read and write access to data and configuration is unrestricted.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] ** WARNING: You are running this process as the root user, which is not recommended.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] ** WARNING: /sys/kernel/mm/transparent_hugepage/enabled is 'always'.
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten] **        We suggest setting it to 'never'
2019-01-08T12:07:32.882+0530 I CONTROL  [initandlisten]
> db.dropDatabase("music")
2019-01-08T12:10:01.128+0530 E QUERY    [thread1] Error: dropDatabase doesn't take arguments :
DB.prototype.dropDatabase@src/mongo/shell/db.js:302:1
@(shell):1:1
> use music
switched to db music
> db.createCollection("Songdetails")
{ "ok" : 1 }
> |
```

2) Create a collection called songdetails.

db.createCollection("Songdetails")

## 3) Create the above 5 song documents.

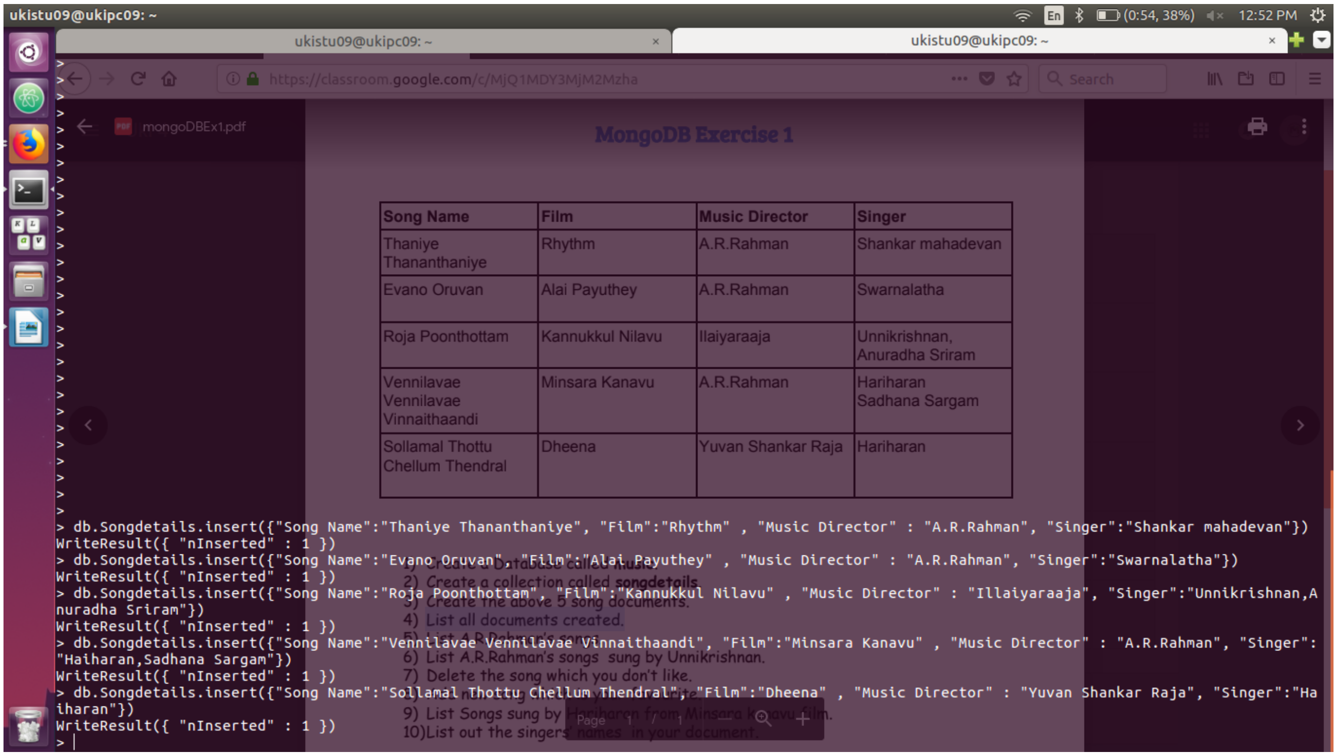
db.Songdetails.insert({"Song Name":"Thaniye Thananthaniye", "Film":"Rhythm" , "Music Director" : "A.R.Rahman", "Singer":"Shankar mahadevan"})

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

db.Songdetails.insert({"Song Name":"Vennilavae Vennilavae Vinnaithaandi", "Film":"Minsara Kanavu" , "Music Director" : "A.R.Rahman", "Singer":"Haiharan,Sadhana Sargam"})

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



MongoDB Exercise 1

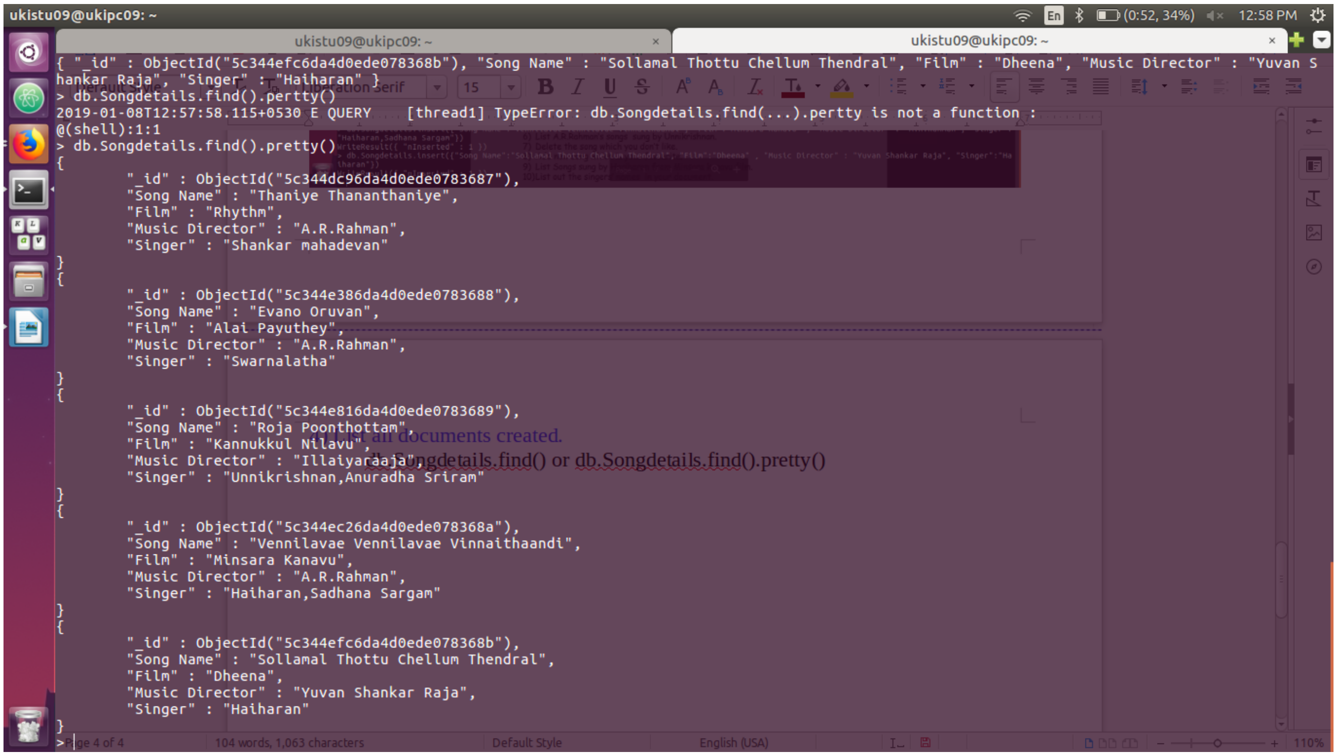
| Song Name | Film | Music Director | Singer |
|---|---|---|---|
| Thaniye Thananthaniye | Rhythm | A.R.Rahman | Shankar mahadevan |
| Evano Oruvan | Alai Payuthey | A.R.Rahman | Swarnalatha |
| Roja Poonthottam | Kannukkul Nilavu | Ilaiyaraaja | Unnikrishnan,<br>Anuradha Sriram |
| Vennilavae Vennilavae Vinnaithaandi | Minsara Kanavu | A.R.Rahman | Hariharan<br>Sadhana Sargam |
| Sollamal Thottu Chellum Thendral | Dheena | Yuvan Shankar Raja | Hariharan |

1) Create a Database called music.
2) Create a collection called songdetails
3) Create the above 5 song documents.
4) List all documents created.
5) List A.R.Rahman's songs.
6) List A.R.Rahman's songs  sung by Unnikrishnan.
7) Delete the song which you don't like.
9) List Songs sung by Hariharan from Minsara kanavu film.
10)List out the singers' names  in your document.

```
> 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" : "Illaiyaraaja", "Singer":"Unnikrishnan,A
nuradha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.Songdetails.insert({"Song Name":"Vennilavae Vennilavae Vinnaithaandi", "Film":"Minsara Kanavu" , "Music Director" : "A.R.Rahman", "Singer":
"Haiharan,Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.Songdetails.insert({"Song Name":"Sollamal Thottu Chellum Thendral", "Film":"Dheena" , "Music Director" : "Yuvan Shankar Raja", "Singer":"Ha
iharan"})
WriteResult({ "nInserted" : 1 })
> |
```

## 4) List all documents created.

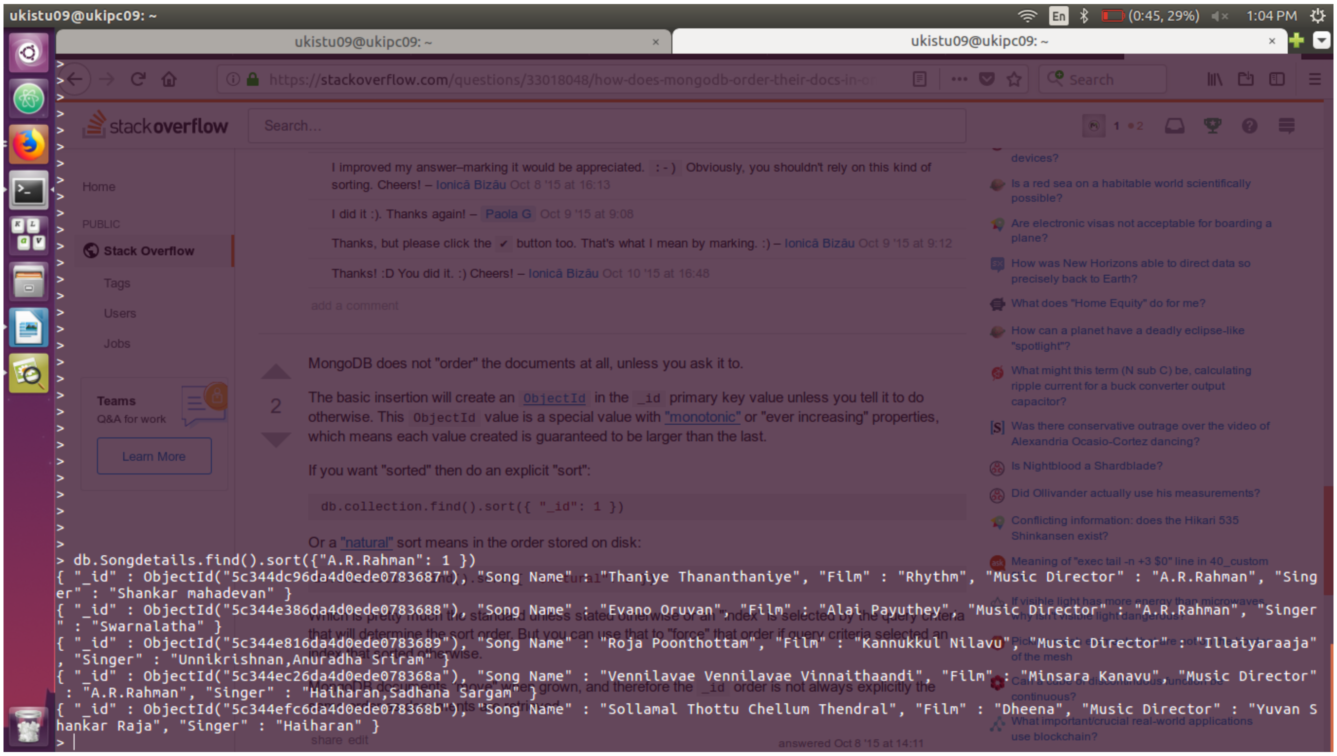
db.Songdetails.find() or db.Songdetails.find().pretty()



```
{ "_id" : ObjectId("5c344efc6da4d0ede078368b"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan S
hankar Raja", "Singer" :"Haiharan" }
> db.Songdetails.find().pertty()
2019-01-08T12:57:58.115+0530 E QUERY    [thread1] TypeError: db.Songdetails.find(...).pertty is not a function :
@(shell):1:1
> db.Songdetails.find().pretty()
{
        "_id" : ObjectId("5c344dc96da4d0ede0783687"),
        "Song Name" : "Thaniye Thananthaniye",
        "Film" : "Rhythm",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Shankar mahadevan"
}
{
        "_id" : ObjectId("5c344e386da4d0ede0783688"),
        "Song Name" : "Evano Oruvan",
        "Film" : "Alai Payuthey",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Swarnalatha"
}
{
        "_id" : ObjectId("5c344e816da4d0ede0783689"),
        "Song Name" : "Roja Poonthottam",
        "Film" : "Kannukkul Nilavu",
        "Music Director" : "Illaiyaraaja",
        "Singer" : "Unnikrishnan,Anuradha Sriram"
}
{
        "_id" : ObjectId("5c344ec26da4d0ede078368a"),
        "Song Name" : "Vennilavae Vennilavae Vinnaithaandi",
        "Film" : "Minsara Kanavu",
        "Music Director" : "A.R.Rahman",
        "Singer" : "Haiharan,Sadhana Sargam"
}
{
        "_id" : ObjectId("5c344efc6da4d0ede078368b"),
        "Song Name" : "Sollamal Thottu Chellum Thendral",
        "Film" : "Dheena",
        "Music Director" : "Yuvan Shankar Raja",
        "Singer" : "Haiharan"
}
>
```

## 5) List A.R.Rahman’s songs.

db.Songdetails.find().sort({"A.R.Rahman": 1 })



```
> db.Songdetails.find().sort({"A.R.Rahman": 1 })
{ "_id" : ObjectId("5c344dc96da4d0ede0783687"), "Song Name" : "Thaniye Thananthaniye", "Film" : "Rhythm", "Music Director" : "A.R.Rahman", "Sing
er" : "Shankar mahadevan" }
{ "_id" : ObjectId("5c344e386da4d0ede0783688"), "Song Name" : "Evano Oruvan", "Film" : "Alai Payuthey", "Music Director" : "A.R.Rahman", "Singer
" : "Swarnalatha" }
{ "_id" : ObjectId("5c344e816da4d0ede0783689"), "Song Name" : "Roja Poonthottam", "Film" : "Kannukkul Nilavu", "Music Director" : "Illaiyaraaja"
, "Singer" : "Unnikrishnan,Anuradha Sriram" }
{ "_id" : ObjectId("5c344ec26da4d0ede078368a"), "Song Name" : "Vennilavae Vennilavae Vinnaithaandi", "Film" : "Minsara Kanavu", "Music Director"
 : "A.R.Rahman", "Singer" : "Haiharan,Sadhana Sargam" }
{ "_id" : ObjectId("5c344efc6da4d0ede078368b"), "Song Name" : "Sollamal Thottu Chellum Thendral", "Film" : "Dheena", "Music Director" : "Yuvan S
hankar Raja", "Singer" : "Haiharan" }
> 
```