MongoDB Exercise 1

Q1, Create a Database called music.

> use music
switched to db music

```
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switched to db music
```

Q2, Create a collection called songdetails.

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

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

Q3,Create the above 5 song documents.

db.songdetails.insert({"Songname":"Thaniye Thannanthaneye","Film":"Rhythm","MusicDirector":"A.R.R ahman","Singer":"Shangar Mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Evano Oruvan","Film":"Alaipayuthey","MusicDirector":"A.R.Rahm an","Singer":"Swarnalatha"})

WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Roja Poonthodam","Film":"Kannukul Nilavu","MusicDirector":"Illaiyaraja","Singer":"UnniKrishnan ,Anuratha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"vennilave vennilave","Film":"Minsara Kanavu","MusicDirector":"A.R.Rahman","Singer":"Hariharan, Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Sollamal thottuch chellum thendral","Film":"Dheena","MusicDirector":"Yuvan Shankar Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })

```
> db.songdetails.insert({"Songname":"Thaniye Thannanthaneye","Film":"Rhythm","MusicDirector":"A.R.Rahman","Singer":"Shangar Mahadevan"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Evano Oruvan","Film":"Alaipayuthey","MusicDirector":"A.R.Rahman","Singer":"Swarnalatha"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Roja Poonthodam","Film":"Kannukul Nilavu","MusicDirector":"Illaiyaraja","Singer":"UnniKrishnan,Anuratha Sriram"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"vennilave vennilave","Film":"Minsara Kanavu","MusicDirector":"A.R.Rahman","Singer":"Hariharan, Sadhana Sargam"})
WriteResult({ "nInserted" : 1 })
> db.songdetails.insert({"Songname":"Sollamal thottuch chellum thendral","Film":"Dheena","MusicDirector":"Yuvan Shankar Raja","Singer":"Hariharan"})
WriteResult({ "nInserted" : 1 })
```

Q4,List all documents created.

```
 >db.songdetails.find()
{ "_id" : ObjectId("5c383289aa16b898ea6f7cd4"),
"Songname" : "Thaniye Thannanthaneye", "Film" :
"Rhythm", "MusicDirector" : "A.R.Rahman", "Singer" :
"Shangar Mahadevan" }
{ "_id" : ObjectId("5c38328daa16b898ea6f7cd5"),
"Songname" : "Evano Oruvan", "Film" : "Alaipayuthey",
"MusicDirector" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c383290aa16b898ea6f7cd6"),
"Songname" : "Roja Poonthodam", "Film" : "Kannukul
Nilavu", "MusicDirector" : "Illaiyaraja", "Singer" :
"UnniKrishnan,Anuratha Sriram" }
{ "_id" : ObjectId("5c383866aa16b898ea6f7cd7"),
"Songname" : "vennilave vennilave", "Film" : "Minsara
Kanavu", "MusicDirector" : "A.R.Rahman", "Singer" :
"Hariharan, Sadhana Sargam" }
{ "_id" : ObjectId("5c38389aaa16b898ea6f7cd8"),
"Songname" : "Sollamal thottuch chellum thendral", "Film"
: "Dheena", "MusicDirector" : "Yuvan Shankar Raja",
"Singer" : "Hariharan" }: "Dheena", "MusicDirector" :
"Yuvan Shankae Raja", "Singer" : "Hariharan" }
```

```
> db.songdetails.find()
{ "_id" : ObjectId("5c383289aa16b898ea6f7cd4"), "Songname" : "Thaniye Thannantha
neye", "Film" : "Rhythm", "MusicDirector" : "A.R.Rahman", "Singer" : "Shangar Ma
hadevan" }
{ "_id" : ObjectId("5c38328daa16b898ea6f7cd5"), "Songname" : "Evano Oruvan", "Fi
lm" : "Alaipayuthey", "MusicDirector" : "A.R.Rahman", "Singer" : "Swarnalatha" }
{ "_id" : ObjectId("5c383290aa16b898ea6f7cd6"), "Songname" : "Roja Poonthodam",
"Film" : "Kannukul Nilavu", "MusicDirector" : "Illaiyaraja", "Singer" : "UnniKri
shnan,Anuratha Sriram" }
{ "_id" : ObjectId("5c383866aa16b898ea6f7cd7"), "Songname" : "vennilave vennilav
e", "Film" : "Minsara Kanavu", "MusicDirector" : "A.R.Rahman", "Singer" : "Harih
aran, Sadhana Sargam" }
{ "_id" : ObjectId("5c38389aaa16b898ea6f7cd8"), "Songname" : "Sollamal thottuch
chellum thendral", "Film" : "Dheena", "MusicDirector" : "Yuvan Shankar Raja", "S
inger" : "Hariharan" }
```

Q5,List A.R.Rahman's songs.

>db.songdetails.find({"MusicDirector":"A.R.Rahman"}).pretty()
{
    "_id" : ObjectId("5c383289aa16b898ea6f7cd4"),
    "Songname" : "Thaniye Thannanthaneye",
    "Film" : "Rhythm",
    "MusicDirector" : "A.R.Rahman",
    "Singer" : "Shangar Mahadevan"
}
{
    "_id" : ObjectId("5c38328daa16b898ea6f7cd5"),
    "Songname" : "Evano Oruvan",
    "Film" : "Alaipayuthey",
    "MusicDirector" : "A.R.Rahman",
    "Singer" : "Swarnalatha"

```
}
{
    "_id" : ObjectId("5c383866aa16b898ea6f7cd7"),
    "Songname" : "vennilave vennilave",
    "Film" : "Minsara Kanavu",
    "MusicDirector" : "A.R.Rahman",
    "Singer" : "Hariharan, Sadhana Sargam"
}
```

```
> db.songdetails.find({"MusicDirector":"A.R.Rahman"}).pretty()
{
        "_id" : ObjectId("5c383289aa16b898ea6f7cd4"),
        "Songname" : "Thaniye Thannanthaneye",
        "Film" : "Rhythm",
        "MusicDirector" : "A.R.Rahman",
        "Singer" : "Shangar Mahadevan"
}
{
        "_id" : ObjectId("5c38328daa16b898ea6f7cd5"),
        "Songname" : "Evano Oruvan",
        "Film" : "Alaipayuthey",
        "MusicDirector" : "A.R.Rahman",
        "Singer" : "Swarnalatha"
}
{
        "_id" : ObjectId("5c383866aa16b898ea6f7cd7"),
        "Songname" : "vennilave vennilave",
        "Film" : "Minsara Kanavu",
        "MusicDirector" : "A.R.Rahman",
        "Singer" : "Hariharan, Sadhana Sargam"
}
```

Q6,List A.R.Rahman's songs sung by Unnikrishnan.

db.songdetails.find({"Singer" :
"UnniKrishnan","MusicDirector" :
"Illaiyaraja"},{"Songname" :1})
{ "_id" : ObjectId("5c38496a6761210d0923c287"),
"Songname" : "Roja Poonthodam" }

```
> db.songdetails.find({"Singer" : "UnniKrishnan","MusicDirector" : "Illaiyaraja"
},{"Songname" :1})
{ "_id" : ObjectId("5c38496a6761210d0923c287"), "Songname" : "Roja Poonthodam" }
```

Q7,Delete the song which you don'tlike.

db.songdetails.remove({"Songname" : "Roja
Poonthodam"})
WriteResult({ "nRemoved" : 1 })

```
> db.songdetails.remove({"Songname" : "Roja Poonthodam"})
WriteResult({ "nRemoved" : 1 })
```
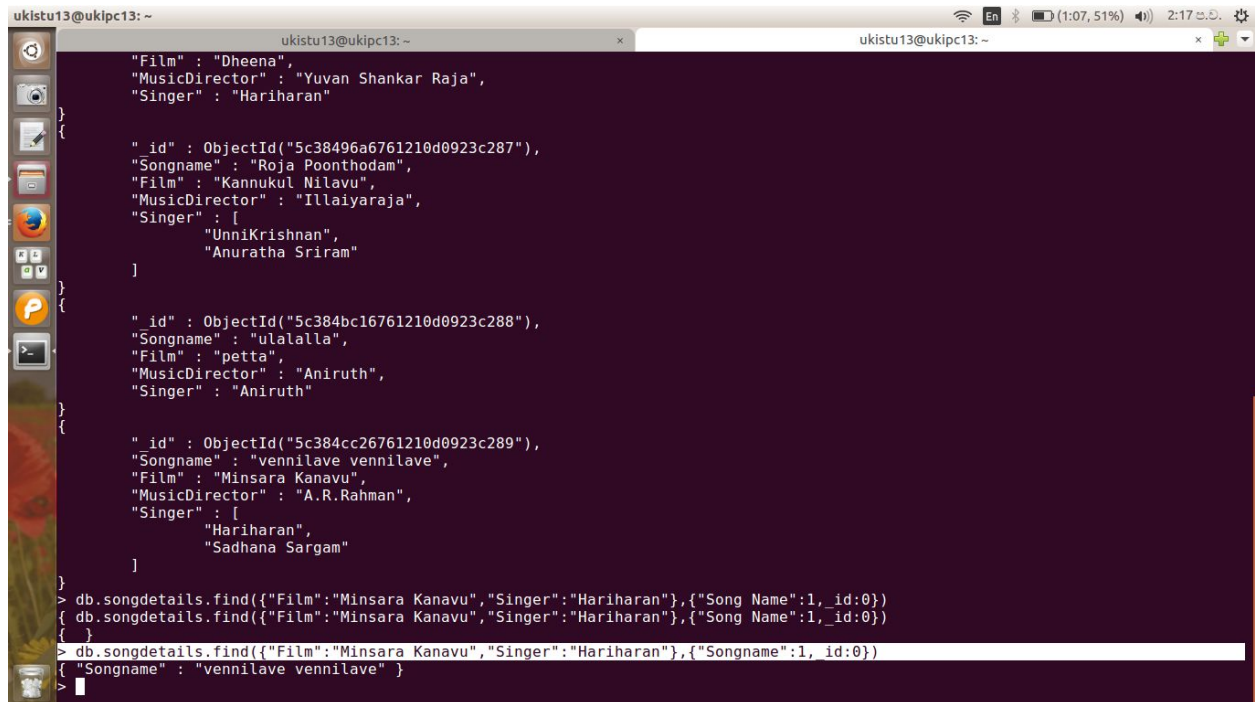
Q8,Add new song which is your favourite.

> db.songdetails.find({"Singer" :
"UnniKrishnan","MusicDirector" :
"Illaiyaraja"},{"Songname" :1})
{ "_id" : ObjectId("5c38496a6761210d0923c287"),
"Songname" : "Roja Poonthodam" }
>
db.songdetails.insert({"Songname":"ulalalla","Film":"petta",
"MusicDirector":"Aniruth","Singer":"Aniruth"})
WriteResult({ "nInserted" : 1 })

```
> db.songdetails.find({"Singer" : "UnniKrishnan","MusicDirector" : "Illaiyaraja"
},{"Songname" :1})
{ "_id" : ObjectId("5c38496a6761210d0923c287"), "Songname" : "Roja Poonthodam" }
> db.songdetails.insert({"Songname":"ulalalla","Film":"petta","MusicDirector":"A
niruth","Singer":"Aniruth"})
WriteResult({ "nInserted" : 1 })
```

Q9,List Songs sung by Hariharan from Minsara kanavu film.

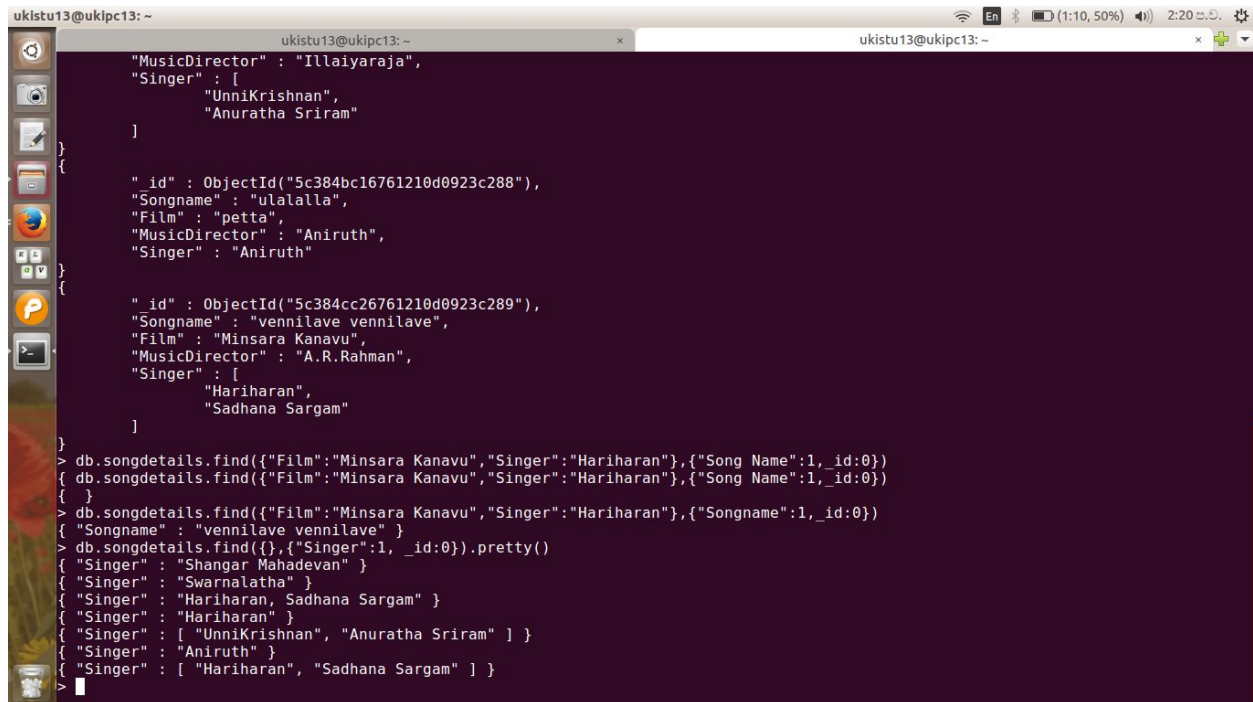db.songdetails.find({"Flim":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1,_id:0})


```
        "Film" : "Dheena",
        "MusicDirector" : "Yuvan Shankar Raja",
        "Singer" : "Hariharan"
}
{
        "_id" : ObjectId("5c38496a6761210d0923c287"),
        "Songname" : "Roja Poonthodam",
        "Film" : "Kannukul Nilavu",
        "MusicDirector" : "Illaiyaraja",
        "Singer" : [
                "UnniKrishnan",
                "Anuratha Sriram"
        ]
}
{
        "_id" : ObjectId("5c384bc16761210d0923c288"),
        "Songname" : "ulalalla",
        "Film" : "petta",
        "MusicDirector" : "Aniruth",
        "Singer" : "Aniruth"
}
{
        "_id" : ObjectId("5c384cc26761210d0923c289"),
        "Songname" : "vennilave vennilave",
        "Film" : "Minsara Kanavu",
        "MusicDirector" : "A.R.Rahman",
        "Singer" : [
                "Hariharan",
                "Sadhana Sargam"
        ]
}
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Song Name":1,_id:0})
{ db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Song Name":1,_id:0})
{   }
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1, id:0})
{ "Songname" : "vennilave vennilave" }
>
```

Q10,List out the singers' names in your document.

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

```
        "MusicDirector" : "Illaiyaraja",
        "Singer" : [
                "UnniKrishnan",
                "Anuratha Sriram"
        ]
}
{
        "_id" : ObjectId("5c384bc16761210d0923c288"),
        "Songname" : "ulalalla",
        "Film" : "petta",
        "MusicDirector" : "Aniruth",
        "Singer" : "Aniruth"
}
{
        "_id" : ObjectId("5c384cc26761210d0923c289"),
        "Songname" : "vennilave vennilave",
        "Film" : "Minsara Kanavu",
        "MusicDirector" : "A.R.Rahman",
        "Singer" : [
                "Hariharan",
                "Sadhana Sargam"
        ]
}
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Song Name":1,_id:0})
{ db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Song Name":1,_id:0})
{ }
> db.songdetails.find({"Film":"Minsara Kanavu","Singer":"Hariharan"},{"Songname":1,_id:0})
{ "Songname" : "vennilave vennilave" }
> db.songdetails.find({},{"Singer":1, _id:0}).pretty()
{ "Singer" : "Shangar Mahadevan" }
{ "Singer" : "Swarnalatha" }
{ "Singer" : "Hariharan, Sadhana Sargam" }
{ "Singer" : "Hariharan" }
{ "Singer" : [ "UnniKrishnan", "Anuratha Sriram" ] }
{ "Singer" : "Aniruth" }
{ "Singer" : [ "Hariharan", "Sadhana Sargam" ] }
>
```