## Q. Design and develop MongoDB queries using CRUD operations.

```
bash-4.2$ cd mongodb-linux-x86_64-3.0.4
bash-4.2$ cd bin
bash-4.2$ ./mongo 10.10.13.151/t31255db -u t31255 -p t31255
MongoDB shell version: 3.0.4
connecting to: 10.10.13.151/t31255db
> db.createCollection('Football Players');
{ "ok": 1 }
> db.Football Players.find();
2019-09-10T10:44:51.978+0530 E QUERY SyntaxError: Unexpected identifier
> db.FootballPlayers.find();
> db.FootballPlayers.drop();
false
> db.Football Players.drop();
2019-09-10T10:45:31.457+0530 E QUERY SyntaxError: Unexpected identifier
> db.Football.drop();
false
Q1. Create a collection.
> db.createCollection('FootballPlayers');
{ "ok": 1 }
> db.FootballPlayers.insert({fname: 'Cristiano', lname: 'Ronaldo', age:34, teams: ['Juventus',
'Portugal'], position: 'ST', rating: 93});
WriteResult({ "nInserted": 1 })
> db.FootballPlayers.find().pretty();
       "_id": ObjectId("5d77325dcf5de44f995e742a"),
       "fname": "Cristiano",
       "lname": "Ronaldo",
       "age": 34,
       "teams":[
             "Juventus",
              "Portugal"
       "position": "ST",
       "rating": 93
> db.FootballPlayers.remove();
2019-09-10T10:50:48.650+0530 E QUERY Error: remove needs a query
  at Error (<anonymous>)
  at DBCollection._parseRemove (src/mongo/shell/collection.js:305:32)
  at DBCollection.remove (src/mongo/shell/collection.js:328:23)
  at (shell):1:20 at src/mongo/shell/collection.js:305
2019-09-10T10:50:48.650+0530 I NETWORK DBClientCursor::init call() failed
> db.FootballPlayers.remove({age:34});
2019-09-10T10:50:57.699+0530 I NETWORK trying reconnect to 10.10.13.151:27017 (10.10.13.151)
failed
2019-09-10T10:50:57.700+0530 I NETWORK reconnect 10.10.13.151:27017 (10.10.13.151) ok
```

```
WriteResult({ "nRemoved" : 1 })
> db.FootballPlayers.insert({name:{fname:}}, age:34, teams: ['Juventus', 'Portugal'], position: 'ST',
rating: 93});
2019-09-10T10:52:56.480+0530 E QUERY SyntaxError: Unexpected token }
> db.FootballPlayers.insert({name:{fname:'Cristiano',lname:'Ronaldo'}, age:34, teams: ['Juventus',
'Portugal'], position: 'ST', rating: 93});
2019-09-10T10:53:23.856+0530 I NETWORK DBClientCursor::init call() failed
at Error (<anonymous>)
  at DBCollection.insert (src/mongo/shell/collection.js:260:23)
  at (shell):1:20 at src/mongo/shell/collection.js:260
> db.FootballPlayers.insert({name:{fname:['Cristiano',lname:'Ronaldo'}], age:34, teams: ['Juventus',
'Portugal'], position: 'ST', rating: 93});
2019-09-10T10:55:44.823+0530 E QUERY SyntaxError: Unexpected token:
> db.FootballPlayers.insert({name:[{fname:'Cristiano',lname:'Ronaldo'}], age:34, teams:
['Juventus', 'Portugal'], position: 'ST', rating: 93});
2019-09-10T10:56:14.856+0530 I NETWORK trying reconnect to 10.10.13.151:27017 (10.10.13.151)
failed
2019-09-10T10:56:14.857+0530 I NETWORK reconnect 10.10.13.151:27017 (10.10.13.151) ok
WriteResult({ "nInserted" : 1 })
Q2. Remove entry of player aged 34.
> db.FootballPlayers.remove({age:34});
WriteResult({ "nRemoved" : 1 })
Q3. Insert 10 entries in the collection.
> db.FootballPlayers.insert({name:[{fname:'Cristiano',lname:'Ronaldo'}], age:34, teams: ['Juventus',
'Portugal'], position: 'ST', rating: 93});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'Lionel',lname:'Messi'}], age:32, teams: ['FCBarcelona',
'Argentina'], position: 'RW', rating: 94});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'Neymar',lname:'Jr'}], age:27, teams: ['PSG', 'Brazil'],
position: 'LW', rating: 92});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.find().pretty();
       " id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                    "fname": "Cristiano",
                    "lname": "Ronaldo"
       "age": 34,
       "teams": [
             "Juventus",
             "Portugal"
       "position": "ST",
```

```
"rating" : 93
}
{
       " id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
                      "fname": "Lionel",
                      "lname" : "Messi"
               }
       "age": 32,
       "teams" : [
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
}
{
       " id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
               {
                      "fname": "Neymar",
                      "lname": "Jr"
       ],
       "age": 27,
       "teams" : [
              "PSG",
              "Brazil"
       ],
       "position": "LW",
       "rating" : 92
> db.FootballPlayers.insert({name:[{fname:'Eden',lname:'Hazard'}], age:28, teams: ['RealMadrid',
'Belgium'], position: 'LW', rating: 91});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'Kevin',lname:'DeBruyne'}], age:28, teams: ['ManCity',
'Belgium'], position: 'CAM', rating: 91});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'Jan',lname:'Oblak'}], age:26, teams: ['AthleticoMadrid',
'Slovenia'], position: 'GK', rating: 90});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'Virgil',lname:'VanDijk'}], age:28, teams: ['Liverpool',
'Netherlands'], position: 'CB', rating: 90});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'Mohamed',lname:'Salah'}], age:27, teams: ['Liverpool',
'Egypt'], position: 'RW', rating: 90});
WriteResult({ "nInserted": 1 })
```

```
> db.FootballPlayers.insert({name:[{fname:'Luka',lname:'Modric'}], age:34, teams: ['RealMadrid',
'Croatia'], position: 'CM', rating: 90});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.insert({name:[{fname:'MarcAndre',lname:'TerStegen'}], age:27, teams:
['FCBarcelona', 'Germany'], position: 'GK', rating: 90});
WriteResult({ "nInserted" : 1 })
> db.FootballPlayers.find();
{ " id" : ObjectId("5d77344ccf5de44f995e742d"), "name" : [ { "fname" : "Cristiano", "lname" :
"Ronaldo" } ], "age" : 34, "teams" : [ "Juventus", "Portugal" ], "position" : "ST", "rating" : 93 }
{ " id" : ObjectId("5d7734dccf5de44f995e742e"), "name" : [ { "fname" : "Lionel", "lname" : "Messi" }
], "age" : 32, "teams" : [ "FCBarcelona", "Argentina" ], "position" : "RW", "rating" : 94 }
{ "_id" : ObjectId("5d77350ccf5de44f995e742f"), "name" : [ { "fname" : "Neymar", "lname" : "Jr" } ],
"age" : 27, "teams" : [ "PSG", "Brazil" ], "position" : "LW", "rating" : 92 }
{ "_id" : ObjectId("5d7735d9cf5de44f995e7430"), "name" : [ { "fname" : "Eden", "lname" :
"Hazard" } ], "age" : 28, "teams" : [ "RealMadrid", "Belgium" ], "position" : "LW", "rating" : 91 }
{ "_id" : ObjectId("5d773611cf5de44f995e7431"), "name" : [ { "fname" : "Kevin", "lname" :
"DeBruyne" } ], "age" : 28, "teams" : [ "ManCity", "Belgium" ], "position" : "CAM", "rating" : 91 }
{ "_id" : ObjectId("5d7736c4cf5de44f995e7432"), "name" : [ { "fname" : "Jan", "lname" : "Oblak" } ],
"age": 26, "teams": [ "AthleticoMadrid", "Slovenia"], "position": "GK", "rating": 90 }
{ " id" : ObjectId("5d7736ffcf5de44f995e7433"), "name" : [ { "fname" : "Virgil", "lname" :
"VanDijk" } ], "age" : 28, "teams" : [ "Liverpool", "Netherlands" ], "position" : "CB", "rating" : 90 }
{ "_id" : ObjectId("5d77379bcf5de44f995e7434"), "name" : [ { "fname" : "Mohamed", "lname" :
"Salah" } ], "age" : 27, "teams" : [ "Liverpool", "Egypt" ], "position" : "RW", "rating" : 90 }
{ "_id" : ObjectId("5d7737bfcf5de44f995e7435"), "name" : [ { "fname" : "Luka", "lname" : "Modric" }
], "age" : 34, "teams" : [ "RealMadrid", "Croatia" ], "position" : "CM", "rating" : 90 }
{ " id" : ObjectId("5d77381ccf5de44f995e7436"), "name" : [ { "fname" : "MarcAndre", "lname" :
"TerStegen" } ], "age" : 27, "teams" : [ "FCBarcelona", "Germany" ], "position" : "GK", "rating" : 90 }
> db.FootballPlayers.find().pretty();
       " id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
               {
                      "fname": "Cristiano",
                      "lname": "Ronaldo"
               }
       "age" : 34,
       "teams":[
              "Juventus",
              "Portugal"
       "position": "ST",
       "rating" : 93
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
                      "fname": "Lionel",
```

```
"lname" : "Messi"
              }
       ],
      "age" : 32,
       "teams":[
             "FCBarcelona",
             "Argentina"
       "position": "RW",
       "rating" : 94
}
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
      "name" : [
              {
                     "fname": "Neymar",
                     "lname" : "Jr"
              }
       "age": 27,
       "teams":[
             "PSG",
             "Brazil"
       "position": "LW",
       "rating" : 92
}
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
                     "fname": "Eden",
                     "lname": "Hazard"
       ],
       "age": 28,
       "teams" : [
             "RealMadrid",
             "Belgium"
       "position": "LW",
       "rating" : 91
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
```

```
}
       "age" : 28,
       "teams" : [
              "ManCity",
              "Belgium"
       "position": "CAM",
       "rating" : 91
}
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
              {
                     "fname": "Jan",
                     "lname": "Oblak"
      ],
"age" : 26,
       "teams" : [
              "AthleticoMadrid",
              "Slovenia"
       ],
       "position" : "GK",
       "rating" : 90
}
{
       "_id" : ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
              {
                     "fname": "Virgil",
                     "lname" : "VanDijk"
       "age" : 28,
       "teams" : [
              "Liverpool",
              "Netherlands"
       "position": "CB",
       "rating" : 90
}
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
                     "fname": "Mohamed",
                     "lname" : "Salah"
              }
```

```
"age": 27,
       "teams" : [
              "Liverpool",
              "Egypt"
       ],
       "position": "RW",
       "rating": 90
}
{
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
              {
                     "fname": "Luka",
                     "lname": "Modric"
       ],
       "age": 34,
       "teams" : [
              "RealMadrid",
              "Croatia"
       "position": "CM",
       "rating": 90
}
{
       "_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
              {
                     "fname": "MarcAndre",
                     "lname": "TerStegen"
              }
       "age": 27,
       "teams" : [
              "FCBarcelona",
              "Germany"
       "position": "GK",
       "rating" : 90
> db.student.find({age:{$lt:30}});
Q4. Display data of all players whose age is less than 30.
> db.FootballPlayers.find({age:{$lt:30}});
{ "_id" : ObjectId("5d77350ccf5de44f995e742f"), "name" : [ { "fname" : "Neymar", "lname" : "Jr" } ],
"age": 27, "teams": [ "PSG", "Brazil"], "position": "LW", "rating": 92 }
{ "_id" : ObjectId("5d7735d9cf5de44f995e7430"), "name" : [ { "fname" : "Eden", "lname" :
"Hazard" } ], "age" : 28, "teams" : [ "RealMadrid", "Belgium" ], "position" : "LW", "rating" : 91 }
{ "_id" : ObjectId("5d773611cf5de44f995e7431"), "name" : [ { "fname" : "Kevin", "lname" :
```

```
"DeBruyne" } ], "age" : 28, "teams" : [ "ManCity", "Belgium" ], "position" : "CAM", "rating" : 91 }
{ "_id" : ObjectId("5d7736c4cf5de44f995e7432"), "name" : [ { "fname" : "Jan", "lname" : "Oblak" } ],
"age" : 26, "teams" : [ "AthleticoMadrid", "Slovenia" ], "position" : "GK", "rating" : 90 }
{ "_id" : ObjectId("5d7736ffcf5de44f995e7433"), "name" : [ { "fname" : "Virgil", "lname" :
"VanDijk" } ], "age" : 28, "teams" : [ "Liverpool", "Netherlands" ], "position" : "CB", "rating" : 90 }
{ "_id" : ObjectId("5d77379bcf5de44f995e7434"), "name" : [ { "fname" : "Mohamed", "lname" :
"Salah" } ], "age" : 27, "teams" : [ "Liverpool", "Egypt" ], "position" : "RW", "rating" : 90 }
{ " id" : ObjectId("5d77381ccf5de44f995e7436"), "name" : [ { "fname" : "MarcAndre", "lname" :
"TerStegen" } ], "age" : 27, "teams" : [ "FCBarcelona", "Germany" ], "position" : "GK", "rating" : 90 }
> db.FootballPlayers.find({age:{$lt:30}}).pretty();
       " id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                      "fname": "Neymar",
                      "lname": "Jr"
       "age": 27,
       "teams" : [
              "PSG",
              "Brazil"
       ],
       "position": "LW",
       "rating" : 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
              {
                      "fname": "Eden",
                      "lname": "Hazard"
       "age": 28,
       "teams" : [
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                      "fname": "Kevin",
                      "lname" : "DeBruyne"
              }
```

```
],
"age": 28,
       "teams":[
              "ManCity",
              "Belgium"
       "position": "CAM",
       "rating" : 91
}
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
               {
                      "fname": "Jan",
                      "lname" : "Oblak"
       ],
       "age" : 26,
       "teams" : [
              "AthleticoMadrid",
              "Slovenia"
       "position": "GK",
       "rating" : 90
}
{
       "_id": ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
                      "fname": "Virgil",
                      "lname" : "VanDijk"
               }
       "age" : 28,
       "teams":[
              "Liverpool",
              "Netherlands"
       "position" : "CB",
       "rating" : 90
}
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
               {
                      "fname" : "Mohamed",
"lname" : "Salah"
               }
       ],
```

```
"age": 27,
       "teams" : [
              "Liverpool",
              "Egypt"
       "position": "RW",
       "rating" : 90
}
{
       " id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
              {
                     "fname": "MarcAndre",
                     "lname": "TerStegen"
              }
       "age": 27,
       "teams" : [
              "FCBarcelona",
              "Germany"
       ],
       "position": "GK",
       "rating": 90
Q5. Display data of all players whose rating is greater than equal to 90 and position
is LW.
> db.FootballPlayers.find({$and:[{rating:{$gte:90}},{position:'LW'}]});
{ "_id" : ObjectId("5d77350ccf5de44f995e742f"), "name" : [ { "fname" : "Neymar", "lname" : "Jr" } ],
"age": 27, "teams": [ "PSG", "Brazil"], "position": "LW", "rating": 92 }
{ "_id" : ObjectId("5d7735d9cf5de44f995e7430"), "name" : [ { "fname" : "Eden", "lname" :
"Hazard" } ], "age" : 28, "teams" : [ "RealMadrid", "Belgium" ], "position" : "LW", "rating" : 91 }
> db.FootballPlayers.find({$and:[{rating:{$gte:90}},{position:'LW'}]}).pretty();
{
       " id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                     "fname": "Neymar",
                     "lname": "Jr"
              }
       "age": 27,
       "teams":[
              "PSG",
              "Brazil"
       "position": "LW",
       "rating" : 92
}
```

```
{
       " id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
              {
                     "fname": "Eden",
                     "lname": "Hazard"
       ],
       "age": 28,
       "teams" : [
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
> db.FootballPlayers.update({name: 'Pep'},{$set: {Team: 'ManCity'}}, upsert:true)
2019-09-10T11:40:00.807+0530 E QUERY SyntaxError: Unexpected token:
Q6. Exhibit the working of upsert.
> db.FootballPlayers.update({name: 'Pep'},{$set: {Team: 'ManCity'}}, {upsert:true});
WriteResult({
       "nMatched": 0,
       "nUpserted": 1,
       "nModified": 0,
       " id": ObjectId("5d773e444f61de78cbd01f92")
})
Q7. Display data of all players whose rating is greater than equal to 90 or position
is LW.
> db.FootballPlayers.find({$or:[{rating:{$gte:90}},{position:'LW'}]});
{ "_id" : ObjectId("5d77344ccf5de44f995e742d"), "name" : [ { "fname" : "Cristiano", "lname" :
"Ronaldo" } ], "age" : 34, "teams" : [ "Juventus", "Portugal" ], "position" : "ST", "rating" : 93 }
{ " id" : ObjectId("5d7734dccf5de44f995e742e"), "name" : [ { "fname" : "Lionel", "lname" : "Messi" }
], "age" : 32, "teams" : [ "FCBarcelona", "Argentina" ], "position" : "RW", "rating" : 94 }
{ "_id" : ObjectId("5d77350ccf5de44f995e742f"), "name" : [ { "fname" : "Neymar", "lname" : "Jr" } ],
"age" : 27, "teams" : [ "PSG", "Brazil" ], "position" : "LW", "rating" : 92 }
{ "_id" : ObjectId("5d7735d9cf5de44f995e7430"), "name" : [ { "fname" : "Eden", "lname" :
"Hazard" } ], "age" : 28, "teams" : [ "RealMadrid", "Belgium" ], "position" : "LW", "rating" : 91 }
{ "_id" : ObjectId("5d773611cf5de44f995e7431"), "name" : [ { "fname" : "Kevin", "lname" :
"DeBruyne" } ], "age" : 28, "teams" : [ "ManCity", "Belgium" ], "position" : "CAM", "rating" : 91 }
{ "_id" : ObjectId("5d7736c4cf5de44f995e7432"), "name" : [ { "fname" : "Jan", "lname" : "Oblak" } ],
"age": 26, "teams": [ "AthleticoMadrid", "Slovenia"], "position": "GK", "rating": 90 }
{ "_id" : ObjectId("5d7736ffcf5de44f995e7433"), "name" : [ { "fname" : "Virgil", "lname" :
"VanDijk" } ], "age" : 28, "teams" : [ "Liverpool", "Netherlands" ], "position" : "CB", "rating" : 90 }
{ "_id" : ObjectId("5d77379bcf5de44f995e7434"), "name" : [ { "fname" : "Mohamed", "lname" :
"Salah" } ], "age" : 27, "teams" : [ "Liverpool", "Egypt" ], "position" : "RW", "rating" : 90 }
{ "_id" : ObjectId("5d7737bfcf5de44f995e7435"), "name" : [ { "fname" : "Luka", "lname" : "Modric" }
], "age" : 34, "teams" : [ "RealMadrid", "Croatia" ], "position" : "CM", "rating" : 90 }
{ "_id" : ObjectId("5d77381ccf5de44f995e7436"), "name" : [ { "fname" : "MarcAndre", "lname" :
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```
"TerStegen" } ], "age" : 27, "teams" : [ "FCBarcelona", "Germany" ], "position" : "GK", "rating" : 90 }
> db.FootballPlayers.find({$or:[{rating:{$gte:90}},{position:'LW'}]}).pretty();
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
              }
       "age": 34,
       "teams":[
              "Juventus",
              "Portugal"
       "position": "ST",
       "rating" : 93
}
{
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
              {
                     "fname": "Lionel",
                     "lname" : "Messi"
       ],
       "age": 32,
       "teams" : [
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating": 94
}
{
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                     "fname": "Neymar",
                     "lname": "Jr"
              }
       "age": 27,
       "teams" : [
              "PSG",
              "Brazil"
       "position": "LW",
       "rating": 92
```

```
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
              {
                     "fname": "Eden",
                     "lname": "Hazard"
       ],
       "age": 28,
       "teams" : [
             "RealMadrid",
             "Belgium"
       "position": "LW",
       "rating" : 91
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                     "fname": "Kevin",
                     "lname": "DeBruyne"
              }
       "age" : 28,
       "teams" : [
             "ManCity",
             "Belgium"
       "position": "CAM",
       "rating" : 91
}
{
      "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
              {
                     "fname": "Jan",
                     "lname" : "Oblak"
       "age": 26,
       "teams":[
             "AthleticoMadrid",
             "Slovenia"
       "position": "GK",
       "rating" : 90
}
```

```
{
       "_id": ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
              {
                     "fname": "Virgil",
                     "lname" : "VanDijk"
       ],
"age" : 28,
       "teams":[
              "Liverpool",
              "Netherlands"
       "position": "CB",
       "rating" : 90
}
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
              {
                     "fname": "Mohamed",
                     "lname": "Salah"
       "age": 27,
       "teams":[
              "Liverpool",
              "Egypt"
       "position": "RW",
       "rating" : 90
}
{
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
              {
                     "fname": "Luka",
                     "lname": "Modric"
       "age" : 34,
       "teams":[
              "RealMadrid",
              "Croatia"
       "position" : "CM", "rating" : 90
{
```

```
"_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
                     "fname": "MarcAndre",
                     "lname": "TerStegen"
              }
       "age": 27,
       "teams":[
              "FCBarcelona",
              "Germany"
       ],
       "position": "GK",
       "rating": 90
> db.FootballPlayers.find({$not:[{rating:{$gte:90}]}).pretty();
... ^C
> db.FootballPlayers.find({$not:{rating:90}});
Error: error: {
       "$err": "Can't canonicalize query: BadValue unknown top level operator: $not",
       "code": 17287
> db.FootballPlayers.find({$not:[{rating:90}]});
Error: error: {
       "$err": "Can't canonicalize query: BadValue unknown top level operator: $not",
       "code": 17287
> db.FootballPlayers.find({rating:{$not:90}}).pretty();
Error: error: {
       "$err": "Can't canonicalize query: BadValue $not needs a regex or a document",
       "code": 17287
Q8. Display data of players whose rating is not 90.
> db.FootballPlayers.find({rating:{$not:{$eq:90}}}).pretty();
{
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
              }
       "age": 34,
       "teams":[
              "Juventus",
              "Portugal"
       "position": "ST",
```

```
"rating": 93
}
{
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
                     "fname" : "Lionel",
                     "lname": "Messi"
              }
       "age": 32,
       "teams":[
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
}
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                     "fname" : "Neymar",
"lname" : "Jr"
       ],
       "age" : 27,
       "teams":[
              "PSG",
              "Brazil"
       "position": "LW",
       "rating" : 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
                     "fname": "Eden",
                     "lname" : "Hazard"
              }
       "age": 28,
       "teams":[
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
```

```
}
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
       ],
       "age": 28,
       "teams" : [
              "ManCity",
              "Belgium"
       "position": "CAM",
       "rating": 91
}
{
       "_id" : ObjectId("5d773e444f61de78cbd01f92"),
       "name" : "Pep",
       "Team": "ManCity"
> db.FootballPlayers.find({teams: {$all:['RealMadrid']}});
{ "_id" : ObjectId("5d7735d9cf5de44f995e7430"), "name" : [ { "fname" : "Eden", "lname" :
"Hazard" } ], "age" : 28, "teams" : [ "RealMadrid", "Belgium" ], "position" : "LW", "rating" : 91 }
{ "_id" : ObjectId("5d7737bfcf5de44f995e7435"), "name" : [ { "fname" : "Luka", "lname" : "Modric" }
], "age" : 34, "teams" : [ "RealMadrid", "Croatia" ], "position" : "CM", "rating" : 90 }
Q9. Display data of all players who play for Real Madrid.
> db.FootballPlayers.find({teams: {$all:['RealMadrid']}}).pretty();
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
              {
                     "fname": "Eden",
                     "lname": "Hazard"
       "age": 28,
       "teams" : [
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating": 91
}
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
```

```
"fname": "Luka",
                     "lname": "Modric"
       "age": 34,
       "teams" : [
             "RealMadrid",
              "Croatia"
       "position": "CM",
       "rating": 90
> db.FootballPlayers.find({name.fname:'Cristiano'}).pretty();
2019-09-10T11:53:21.333+0530 E QUERY SyntaxError: Unexpected token .
> db.FootballPlayers.find({name: {fname:'Cristiano'}}).pretty();
> db.FootballPlayers.find({name: {fname:'Lionel'}}).pretty();
> db.FootballPlayers.find({name: {fname: 'Lionel',lname: 'Messi'}}).pretty();
       " id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
                     "fname": "Lionel",
                     "lname": "Messi"
       ],
       "age" : 32,
       "teams" : [
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
> db.FootballPlayers.find({name.fname:'Cristiano'}).pretty();
2019-09-10T11:57:02.493+0530 E QUERY SyntaxError: Unexpected token.
> db.FootballPlayers.find({'name'.'fname':'Cristiano'}).pretty();
2019-09-10T11:57:11.173+0530 E QUERY SyntaxError: Unexpected token .
> db.FootballPlayers.find({name.fname:'Cristiano'}).pretty();
2019-09-10T11:57:17.053+0530 E QUERY SyntaxError: Unexpected token .
Q10. Display data of player with first name Cristiano.
> db.FootballPlayers.find({'name.fname':'Cristiano'}).pretty();
       " id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
```

```
}
       "age" : 34,
       "teams" : [
              "Juventus",
              "Portugal"
       "position": "ST",
       "rating" : 93
> db.FootballPlayers.update({rating:90},{$set:{rating:89}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.FootballPlayers.find().pretty();
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
       "age" : 34,
       "teams":[
              "Juventus",
              "Portugal"
       ],
       "position": "ST",
       "rating" : 93
}
{
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
                     "fname": "Lionel",
                     "lname" : "Messi"
       "age": 32,
       "teams" : [
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
}
{
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
```

```
"fname" : "Neymar",
"lname" : "Jr"
       ],
       "age" : 27,
       "teams":[
              "PSG",
              "Brazil"
       "position": "LW",
       "rating" : 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
                     "fname": "Eden",
                     "lname" : "Hazard"
       "age": 28,
       "teams":[
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
              }
      ],
"age" : 28,
       "teams":[
              "ManCity",
              "Belgium"
       "position": "CAM",
       "rating" : 91
}
       "\_id": ObjectId("5d7736c4cf5de44f995e7432"),\\
       "name" : [
                     "fname": "Jan",
```

```
"lname": "Oblak"
              }
       ],
       "age": 26,
       "teams":[
              "AthleticoMadrid",
              "Slovenia"
       ],
       "position": "GK",
       "rating" : 89
}
{
       "_id": ObjectId("5d7736ffcf5de44f995e7433"),
      "name" : [
              {
                     "fname": "Virgil",
                     "lname" : "VanDijk"
              }
       "age" : 28,
       "teams":[
              "Liverpool",
              "Netherlands"
       "position": "CB",
       "rating" : 90
}
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
                     "fname": "Mohamed",
                     "lname": "Salah"
       ],
       "age": 27,
       "teams" : [
              "Liverpool",
              "Egypt"
       "position": "RW",
       "rating" : 90
}
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
              {
                     "fname": "Luka",
                     "lname": "Modric"
```

```
}
       "age" : 34,
       "teams" : [
              "RealMadrid",
              "Croatia"
       "position": "CM",
       "rating" : 90
}
{
       "_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
              {
                     "fname": "MarcAndre",
                     "lname": "TerStegen"
       "age" : 27,
       "teams" : [
              "FCBarcelona",
              "Germany"
       "position": "GK",
       "rating": 90
}
{
       "_id": ObjectId("5d773e444f61de78cbd01f92"),
       "name" : "Pep",
       "Team" : "ManCity"
Q11. Update ratings of all players with rating 89 and change it to 90.
> db.FootballPlayers.update({rating:90},{$set:{rating:89}},{multi:true});
WriteResult({ "nMatched" : 4, "nUpserted" : 0, "nModified" : 4 })
> db.FootballPlayers.find().pretty();
{
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
              }
       "age": 34,
       "teams" : [
              "Juventus",
              "Portugal"
       "position": "ST",
```

```
"rating": 93
}
{
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
                     "fname" : "Lionel",
                     "lname": "Messi"
              }
       "age": 32,
       "teams":[
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
}
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                     "fname" : "Neymar",
"lname" : "Jr"
       ],
       "age" : 27,
       "teams":[
              "PSG",
              "Brazil"
       "position": "LW",
       "rating" : 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
                     "fname": "Eden",
                     "lname" : "Hazard"
              }
       "age": 28,
       "teams":[
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
```

```
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
       ],
       "age": 28,
       "teams":[
              "ManCity",
              "Belgium"
       "position": "CAM",
       "rating" : 91
}
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
              {
                     "fname": "Jan",
                     "lname" : "Oblak"
              }
       "age" : 26,
       "teams":[
              "AthleticoMadrid",
              "Slovenia"
       "position": "GK",
      "rating" : 89
}
{
      "_id": ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
              {
                     "fname": "Virgil",
                     "lname" : "VanDijk"
       "age": 28,
       "teams" : [
              "Liverpool",
              "Netherlands"
       "position": "CB",
       "rating" : 89
}
```

```
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
              {
                     "fname": "Mohamed",
                     "lname": "Salah"
       ],
       "age": 27,
       "teams":[
              "Liverpool",
              "Egypt"
       "position" : "RW",
       "rating" : 89
}
{
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
              {
                     "fname": "Luka",
                     "lname" : "Modric"
       "age": 34,
       "teams":[
              "RealMadrid",
              "Croatia"
       "position" : "CM",
       "rating" : 89
}
{
       "_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
              {
                     "fname": "MarcAndre",
                     "lname" : "TerStegen"
       ],
       "age" : 27,
       "teams":[
              "FCBarcelona",
              "Germany"
       "position" : "GK",
"rating" : 89
{
```

```
"_id": ObjectId("5d773e444f61de78cbd01f92"),
       "name": "Pep",
       "Team": "ManCity"
}
> db.FootballPlayers.update({rating:89},{$set:{rating:90}},{multi:true});
WriteResult({ "nMatched" : 5, "nUpserted" : 0, "nModified" : 5 })
> db.FootballPlayers.find().pretty();
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
       "age": 34,
       "teams":[
              "Juventus",
              "Portugal"
       "position": "ST",
       "rating" : 93
}
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
              {
                     "fname": "Lionel",
                     "lname": "Messi"
       ],
       "age" : 32,
       "teams" : [
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
}
{
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                     "fname": "Neymar",
                     "lname" : "Jr"
       "age": 27,
       "teams":[
```

```
"PSG",
             "Brazil"
       ],
       "position": "LW",
       "rating": 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
      "name" : [
              {
                     "fname": "Eden",
                     "lname" : "Hazard"
       ],
      "age" : 28,
       "teams" : [
             "RealMadrid",
             "Belgium"
      "position": "LW",
      "rating" : 91
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
              }
      "age" : 28,
       "teams" : [
             "ManCity",
             "Belgium"
       ],
      "position": "CAM",
       "rating" : 91
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
                     "fname": "Jan",
                     "lname" : "Oblak"
       "age": 26,
       "teams":[
             "AthleticoMadrid",
```

```
"Slovenia"
      ],
      "position" : "GK",
       "rating" : 90
}
{
       "_id" : ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
                     "fname" : "Virgil",
                     "lname" : "VanDijk"
      "age" : 28,
       "teams":[
             "Liverpool",
             "Netherlands"
       "position" : "CB",
       "rating" : 90
}
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
      {
                     "fname": "Mohamed",
                     "lname": "Salah"
       ],
       "age": 27,
       "teams" : [
             "Liverpool",
             "Egypt"
       "position": "RW",
       "rating" : 90
}
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
              {
                     "fname": "Luka",
                     "lname": "Modric"
              }
       "age" : 34,
       "teams":[
             "RealMadrid",
              "Croatia"
```

```
"position": "CM",
      "rating" : 90
}
{
      "_id": ObjectId("5d77381ccf5de44f995e7436"),
      "name" : [
                  "fname": "MarcAndre",
                  "lname": "TerStegen"
            }
      ],
      "age": 27,
      "teams" : [
            "FCBarcelona",
            "Germany"
      ],
      "position": "GK",
      "rating": 90
}
{
      "_id": ObjectId("5d773e444f61de78cbd01f92"),
      "name": "Pep",
      "Team": "ManCity"
bash-4.2$ cd mongodb-linux-x86_64-3.0.4
bash-4.2$ cd bin
bash-4.2$ ./mongo 10.10.10.54/t31255db -u t31255 -p t31255
MongoDB shell version: 3.0.4
connecting to: 10.10.10.54/t31255db
2019-09-19T13:24:08.659+0530 W NETWORK Failed to connect to 10.10.10.54:27017, reason:
errno:113 No route to host
(10.10.10.54), connection attempt failed
  at connect (src/mongo/shell/mongo.js:181:14)
  at (connect):1:6 at src/mongo/shell/mongo.js:181
exception: connect failed
bash-4.2$ ./mongo 10.10.10.54/t31255db -u t31255 -p t31255
MongoDB shell version: 3.0.4
connecting to: 10.10.10.54/t31255db
2019-09-19T13:24:41.482+0530 W NETWORK Failed to connect to 10.10.10.54:27017, reason:
errno:113 No route to host
(10.10.10.54), connection attempt failed
  at connect (src/mongo/shell/mongo.js:181:14)
  at (connect):1:6 at src/mongo/shell/mongo.js:181
exception: connect failed
bash-4.2$ ./mongo 10.10.10.54/t31255db -u t31255 -p t31255
MongoDB shell version: 3.0.4
```

```
connecting to: 10.10.10.54/t31255db
2019-09-19T13:26:38.553+0530 W NETWORK Failed to connect to 10.10.10.54:27017, reason:
errno:113 No route to host
(10.10.10.54), connection attempt failed
  at connect (src/mongo/shell/mongo.js:181:14)
  at (connect):1:6 at src/mongo/shell/mongo.js:181
exception: connect failed
bash-4.2$ ./mongo 10.10.10.54/t31255db -u t31255 -p t31255
MongoDB shell version: 3.0.4
connecting to: 10.10.10.54/t31255db
Server has startup warnings:
2019-09-19T13:03:49.431+0530 I CONTROL [initandlisten] ** WARNING: You are running this
process as the root user, which is not recommended.
2019-09-19T13:03:49.431+0530 I CONTROL [initandlisten]
2019-09-19T13:03:49.431+0530 I CONTROL [initandlisten]
2019-09-19T13:03:49.431+0530 I CONTROL [initandlisten] ** WARNING:
/sys/kernel/mm/transparent_hugepage/defrag is 'always'.
                                                             We suggest setting it to 'never'
2019-09-19T13:03:49.431+0530 I CONTROL [initandlisten] **
2019-09-19T13:03:49.431+0530 I CONTROL [initandlisten]
> db.FootballPlayers.find().pretty();
      "_id": ObjectId("5d77344ccf5de44f995e742d"),
      "name" : [
                   "fname": "Cristiano",
                   "lname": "Ronaldo"
      "age": 34,
      "teams" : [
             "Juventus",
            "Portugal"
      "position": "ST",
      "rating": 93
}
      "_id": ObjectId("5d7734dccf5de44f995e742e"),
      "name" : [
             {
                   "fname": "Lionel",
                   "lname": "Messi"
             }
      "age" : 32,
      "teams" : [
             "FCBarcelona",
             "Argentina"
```

```
],
"position": "RW",
       "rating" : 94
}
{
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
                     "fname": "Neymar",
                     "lname" : "Jr"
       ],
       "age": 27,
       "teams":[
              "PSG",
              "Brazil"
      ],
       "position": "LW",
       "rating" : 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
              {
                     "fname": "Eden",
                     "lname" : "Hazard"
              }
       "age": 28,
       "teams":[
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
      "name" : [
              {
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
      "age" : 28,
       "teams":[
              "ManCity",
              "Belgium"
      ],
```

```
"position": "CAM",
       "rating" : 91
}
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
              {
                     "fname": "Jan",
                     "lname" : "Oblak"
       "age" : 26,
       "teams":[
              "AthleticoMadrid",
              "Slovenia"
       "position": "GK",
       "rating" : 90
}
{
       "_id": ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
                     "fname": "Virgil",
                     "lname" : "VanDijk"
       "age" : 28,
       "teams":[
              "Liverpool",
              "Netherlands"
       "position" : "CB", "rating" : 90
}
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
              {
                     "fname": "Mohamed",
                     "lname": "Salah"
       ],
       "age" : 27,
       "teams" : [
              "Liverpool",
              "Egypt"
       "position": "RW",
```

```
"rating": 90
}
{
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
                     "fname": "Luka",
                     "lname": "Modric"
              }
       "age": 34,
       "teams" : [
              "RealMadrid",
              "Croatia"
       "position": "CM",
       "rating": 90
}
       "_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
              {
                     "fname": "MarcAndre",
                     "lname": "TerStegen"
       ],
       "age": 27,
       "teams" : [
              "FCBarcelona",
              "Germany"
       "position": "GK",
       "rating": 90
}
{
       "_id": ObjectId("5d773e444f61de78cbd01f92"),
       "name": "Pep",
      "Team" : "ManCity"
> db.FootballPlayers.updateOne({teams: 'PSG'}, {$set: {'teams.$':'FCBarcelona'}})
2019-09-19T13:43:19.211+0530 E QUERY TypeError: Property 'updateOne' of object
t31255db.FootballPlayers is not a function
  at (shell):1:20
Q12. Change the team of player with team PSG to FCBarcelona
> db.FootballPlayers.update({teams: 'PSG'}, {$set: {'teams.$':'FCBarcelona'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.FootballPlayers.find().pretty();
{
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
```

```
"name" : [
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
       "age": 34,
       "teams":[
              "Juventus",
              "Portugal"
      "position": "ST",
       "rating" : 93
}
{
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
              {
                     "fname": "Lionel",
                     "lname" : "Messi"
              }
      "age" : 32,
       "teams":[
              "FCBarcelona",
              "Argentina"
       "position": "RW",
       "rating" : 94
}
{
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
                     "fname": "Neymar",
                     "lname" : "Jr"
       "age": 27,
       "teams":[
              "FCBarcelona",
              "Brazil"
       "position": "LW",
       "rating" : 92
}
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
```

```
"fname": "Eden",
                     "lname": "Hazard"
      ],
"age" : 28,
       "teams":[
              "RealMadrid",
              "Belgium"
       "position": "LW",
       "rating" : 91
}
{
       "_id" : ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
       ],
       "age" : 28,
       "teams" : [
              "ManCity",
              "Belgium"
       ],
       "position": "CAM",
       "rating" : 91
}
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       _
"name" : [
              {
                     "fname": "Jan",
                     "lname" : "Oblak"
       "age" : 26,
       "teams":[
              "AthleticoMadrid",
              "Slovenia"
       "position": "GK",
       "rating" : 90
}
{
       "_id": ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
              {
```

```
"fname" : "Virgil",
                     "lname" : "VanDijk"
       ],
       "age" : 28,
       "teams":[
              "Liverpool",
              "Netherlands"
       ],
       "position": "CB",
       "rating" : 90
}
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
              {
                     "fname": "Mohamed",
                     "lname" : "Salah"
       "age": 27,
       "teams" : [
              "Liverpool",
"Egypt"
       "position": "RW",
       "rating" : 90
}
{
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
                     "fname": "Luka",
                     "lname" : "Modric"
              }
      ],
"age" : 34,
       "teams":[
              "RealMadrid",
              "Croatia"
       "position": "CM",
       "rating" : 90
}
       "_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
                     "fname": "MarcAndre",
```

```
"lname" : "TerStegen"
              }
       ],
       "age": 27,
       "teams" : [
              "FCBarcelona",
              "Germany"
       ],
       "position": "GK",
       "rating": 90
}
{
       "_id" : ObjectId("5d773e444f61de78cbd01f92"),
       "name" : "Pep",
       "Team": "ManCity"
Q13. Update by accessing embedded document.
> db.FootballPlayers.update({'name.fname':'Cristiano'},{$set:{age:33}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.FootballPlayers.find().pretty();
{
       "_id": ObjectId("5d77344ccf5de44f995e742d"),
       "name" : [
              {
                     "fname": "Cristiano",
                     "lname": "Ronaldo"
              }
       "age": 33,
       "teams" : [
              "Juventus",
              "Portugal"
       "position": "ST",
       "rating" : 93
}
{
       "_id": ObjectId("5d7734dccf5de44f995e742e"),
       "name" : [
              {
                     "fname": "Lionel",
                     "lname" : "Messi"
       "age" : 32,
       "teams" : [
              "FCBarcelona",
              "Argentina"
       ],
```

```
"position": "RW",
       "rating" : 94
}
{
       "_id": ObjectId("5d77350ccf5de44f995e742f"),
       "name" : [
              {
                     "fname": "Neymar",
                     "lname" : "Jr"
       "age": 27,
       "teams":[
              "FCBarcelona",
              "Brazil"
       "position": "LW",
       "rating": 92
}
{
       "_id": ObjectId("5d7735d9cf5de44f995e7430"),
       "name" : [
              {
                     "fname": "Eden",
                     "lname": "Hazard"
       "age" : 28,
       "teams":[
              "RealMadrid",
              "Belgium"
       ],
       "position" : "LW",
"rating" : 91
}
{
       "_id": ObjectId("5d773611cf5de44f995e7431"),
       "name" : [
              {
                     "fname": "Kevin",
                     "lname" : "DeBruyne"
       ],
       "age" : 28,
       "teams":[
              "ManCity",
              "Belgium"
       "position": "CAM",
```

```
"rating": 91
}
{
       "_id": ObjectId("5d7736c4cf5de44f995e7432"),
       "name" : [
                      "fname": "Jan",
                      "lname" : "Oblak"
       "age": 26,
       "teams":[
              "AthleticoMadrid",
              "Slovenia"
       "position": "GK",
       "rating" : 90
}
       "_id": ObjectId("5d7736ffcf5de44f995e7433"),
       "name" : [
              {
                     "fname" : "Virgil",
"lname" : "VanDijk"
       ],
       "age" : 28,
       "teams":[
              "Liverpool",
              "Netherlands"
       "position": "CB",
       "rating" : 90
}
{
       "_id": ObjectId("5d77379bcf5de44f995e7434"),
       "name" : [
                      "fname": "Mohamed",
                      "lname": "Salah"
               }
       "age": 27,
       "teams" : [
              "Liverpool",
              "Egypt"
       "position": "RW",
       "rating" : 90
```

```
}
{
       "_id": ObjectId("5d7737bfcf5de44f995e7435"),
       "name" : [
              {
                     "fname": "Luka",
                     "lname": "Modric"
       ],
       "age" : 34,
       "teams" : [
              "RealMadrid",
              "Croatia"
       ],
       "position": "CM",
       "rating" : 90
}
{
       "_id": ObjectId("5d77381ccf5de44f995e7436"),
       "name" : [
              {
                     "fname": "MarcAndre",
                     "lname": "TerStegen"
              }
       ],
       "age": 27,
       "teams":[
              "FCBarcelona",
              "Germany"
       "position": "GK",
       "rating": 90
}
{
       "_id": ObjectId("5d773e444f61de78cbd01f92"),
       "name": "Pep",
       "Team" : "ManCity"
> db.FootballPlayers.update({'name.fname':'Cristiano'},{$set:{age:34}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```