

1. Create a database

```
---
> use Contact
switched to db Contact
> db
Contact
```

2. Create a collection

```
> db.createCollection("contactlist")
{ "ok" : 1 }
> show collections
contactlist
```

3. Insert documents in "contactlist"

```
> db.contactlist.insertOne({Last_name: "Ben Lahmer", First_name:"Fares", Email: "fares@gmail.com", age:26})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5fa3cc9563c6ccaf2ed99037")
}
> db.contactlist.insertOne({Last_name: "Kefi", First_name:"Seif", Email: "kefi@gmail.com", age:15})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5fa3ce4963c6ccaf2ed99038")
}
> db.contactlist.insertOne({Last_name: "Fatnassi", First_name:"Sarraf", Email: "sarraf@gmail.com", age:40})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5fa3ce8263c6ccaf2ed99039")
}
> db.contactlist.insertOne({Last_name: "Ben Yahia", First_name:"Rym", age:4})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5fa3ceae63c6ccaf2ed9903a")
}
> db.contactlist.insertOne({Last_name: "Cherif", First_name:"Sami", age:3})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5fa3cec863c6ccaf2ed9903b")
}
```

```

> db.contactlist.find().pretty()
{
  "_id" : ObjectId("5fa3cc9563c6ccaf2ed99037"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("5fa3ce4963c6ccaf2ed99038"),
  "Last_name" : "Kefi",
  "First_name" : "Seif",
  "Email" : "kefi@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("5fa3ce8263c6ccaf2ed99039"),
  "Last_name" : "Fatnassi",
  "First_name" : "Sarraf",
  "Email" : "sarraf@gmail.com",
  "age" : 40
}
{
  "_id" : ObjectId("5fa3ceae63c6ccaf2ed9903a"),
  "Last_name" : "Ben Yahia",
  "First_name" : "Rym",
  "age" : 4
}
{
  "_id" : ObjectId("5fa3cec863c6ccaf2ed9903b"),
  "Last_name" : "Cherif",
  "First_name" : "Sami",
  "age" : 3
}

```

4. Display all the information about only one person using his ID

```

> db.contactlist.findOne({_id : ObjectId("5fa3cec863c6ccaf2ed9903b")})
{
  "_id" : ObjectId("5fa3cec863c6ccaf2ed9903b"),
  "Last_name" : "Cherif",
  "First_name" : "Sami",
  "age" : 3
}

```

5. Display all the contact list having age>18

```
> db.contactlist.find({age : {$gt:18}}).pretty()
{
  "_id" : ObjectId("5fa3cc9563c6ccaf2ed99037"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("5fa3ce8263c6ccaf2ed99039"),
  "Last_name" : "Fatnassi",
  "First_name" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
```

6. Display all the contact list having age>18 and name containing "ah"

```
> db.contactlist.find({$and: [{age:{$gt:18}} , {Last_name: {$regex : "ah"}} ]}).pretty()
{
  "_id" : ObjectId("5fa3cc9563c6ccaf2ed99037"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
```

7. Change the contact first name of "kefi Seif" by "Kefi Anis"

```
> db.contactlist.update( {First_name : "Seif"}, {$set: {First_name : "Anis"}} )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.contactlist.find().pretty()
{
  "_id" : ObjectId("5fa3cc9563c6ccaf2ed99037"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("5fa3ce4963c6ccaf2ed99038"),
  "Last_name" : "Kefi",
  "First_name" : "Anis",
  "Email" : "kefi@gmail.com",
  "age" : 15
}
```

8. Delete the contact list having age < 5 AND Display all the contact list

```
> db.contactlist.remove({age : {$lt:5}})
WriteResult({ "nRemoved" : 0 })
> db.contactlist.find().pretty()
{
  "_id" : ObjectId("5fa3cc9563c6ccaf2ed99037"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("5fa3ce4963c6ccaf2ed99038"),
  "Last_name" : "Kefi",
  "First_name" : "Anis",
  "Email" : "kefi@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("5fa3ce8263c6ccaf2ed99039"),
  "Last_name" : "Fatnassi",
  "First_name" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
>
```