1- Create a **database** called "contact":

```
> show dbs
StudentDB   0.000GB
admin       0.000GB
config      0.000GB
contacts    0.000GB
local       0.000GB
tutoDB      0.000GB
> use contact
switched to db contact
> db
contact
```

Samira Hmani
MongoDB

2- Create a **collection** called "contactlist":

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

3- Insert **documents** in contactlist:

```
> db.contactlist.insert([
... {
...     Last_name:"Ben Lahmer",
...     First_name:"Fares",
...     Email: "fares@gmail.com",
...     age: 26
... },
... {
...     Last_name:"Kefi",
...     First_name:"Seif",
...     Email:"Kefi@gmail.com",
...     age:15
... },
... {
...     Last_name:"Fatnassi",
...     First_name:"Sarra",
...     Email:"sarra@gmail.com",
...     age:40
... },
... {
...     Last_name:"Ben Yahia",
...     First_name:"Rym",
...     age:4
... },
... {
...     Last_name:"Charif",
...     First_name:"Sami",
...     age:3
... }
... ])
```

```
BulkWriteResult({
        "writeErrors" : [ ],
        "writeConcernErrors" : [ ],
        "nInserted" : 5,
        "nUpserted" : 0,
        "nMatched" : 0,
        "nModified" : 0,
        "nRemoved" : 0,
        "upserted" : [ ]
})
```

4- Display all the **contactlist**

```
> db.contactlist.find().pretty()
{
        "_id" : ObjectId("5fa46001c95abe6108b070a4"),
        "Last_name" : "Ben Lahmer",
        "First_name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a5"),
        "Last_name" : "Kefi",
        "First_name" : "Seif",
        "Email" : "Kefi@gmail.com",
        "age" : 15
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a6"),
        "Last_name" : "Fatnassi",
        "First_name" : "Sarra",
        "Email" : "sarra@gmail.com",
        "age" : 40
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a7"),
        "Last_name" : "Ben Yahia",
        "First_name" : "Rym",
        "age" : 4
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a8"),
        "Last_name" : "Charif",
        "First_name" : "Sami",
        "age" : 3
}
```

5- Display all the information about **only** one person using his id:

```
> db.contactlist.find({_id : ObjectId("5fa46001c95abe6108b070a6")})
{ "_id" : ObjectId("5fa46001c95abe6108b070a6"), "Last_name" : "Fatnassi", "First_name" : "Sarra", "Email" :
"sarra@gmail.com", "age" : 40 }
```

6. Display **all the contact list** having age>18:

```
> db.contactlist.find({age: {$gt:18}}).pretty()
{
        "_id" : ObjectId("5fa46001c95abe6108b070a4"),
        "Last_name" : "Ben Lahmer",
        "First_name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a6"),
        "Last_name" : "Fatnassi",
        "First_name" : "Sarra",
        "Email" : "sarra@gmail.com",
        "age" : 40
}
```

7- Display all the contact list having age>18 and name containing "ah":

```
> db.contactlist.find({age:{$gt:18}, Last_name:{$regex:/ah/}}).pretty()
{
        "_id" : ObjectId("5fa46001c95abe6108b070a4"),
        "Last_name" : "Ben Lahmer",
        "First_name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
```

8- **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("5fa46001c95abe6108b070a4"),
        "Last_name" : "Ben Lahmer",
        "First_name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a5"),
        "Last_name" : "Kefi",
        "First_name" : "Anis",
        "Email" : "Kefi@gmail.com",
        "age" : 15
}
```

9- **Delete** the contact list having age < 5 and Display all the contact list:

```
> db.contactlist.remove({age:{$lt:5}})
WriteResult({ "nRemoved" : 2 })
> db.contaclist.find().pretty()
> db.contactlist.find().pretty()
{
        "_id" : ObjectId("5fa46001c95abe6108b070a4"),
        "Last_name" : "Ben Lahmer",
        "First_name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a5"),
        "Last_name" : "Kefi",
        "First_name" : "Anis",
        "Email" : "Kefi@gmail.com",
        "age" : 15
}
{
        "_id" : ObjectId("5fa46001c95abe6108b070a6"),
        "Last_name" : "Fatnassi",
        "First_name" : "Sarra",
        "Email" : "sarra@gmail.com",
        "age" : 40
}
```