

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
```

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:"Sarrah",
...   Email:"sarrah@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" : "Sarrah",
  "Email" : "sarrah@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" : "Sarrah", "Email" :
"sarrah@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" : "Sarrah",
  "Email" : "sarrah@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.contactlist.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" : "Sarrah",
  "Email" : "sarrah@gmail.com",
  "age" : 40
}
```