1. Create a database called "contact" :
   > use contact

2. Create a collection called "contactlist" :
   > db.createCollection("contactlist")

```
C:\.                    Invite de commandes - mongo
> use contact
switched to db contact
> db.createCollection("contactlist")
{ "ok" : 1 }
> show collections
contactlist
>
```

3. Insert the 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.f@gmail.com", "age" : 40}, {"Last name" : "Ben Yahia", "First name" : "Rym, "age" : 4}, {"Last name" : "Cherif", "First name" : "Sami", "age" : 3}])

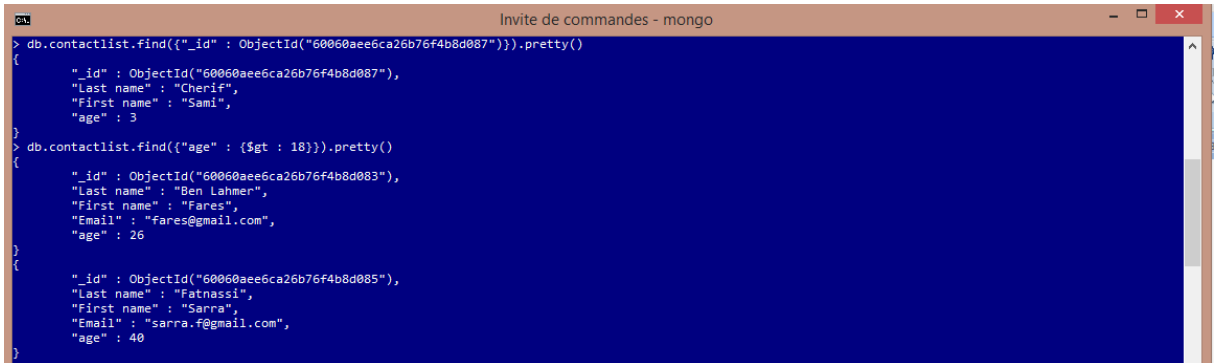4. Display all the contactlist :
   > db.contactlist.find().pretty()

```
C:\.                              Invite de commandes - mongo                        _ □ ×
> 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.f@gmail.com", "age":40}, { "Last name": "Ben Yahia", "Fi
rst name": "Rym", "age":4}, {"Last name": "Cherif", "First name": "Sami", "age":3}])
BulkWriteResult({
        "writeErrors" : [ ],
        "writeConcernErrors" : [ ],
        "nInserted" : 5,
        "nUpserted" : 0,
        "nMatched" : 0,
        "nModified" : 0,
        "nRemoved" : 0,
        "upserted" : [ ]
})
> db.contactlist.find().pretty()
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d083"),
        "Last name" : "Ben Lahmer",
        "First name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d084"),
        "Last name" : "Kefi",
        "First name" : "Seif",
        "Email" : "kefi@gmail.com",
        "age" : 15
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d085"),
        "Last name" : "Fatnassi",
        "First name" : "Sarra",
        "Email" : "sarra.f@gmail.com",
        "age" : 40
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d086"),
        "Last name" : "Ben Yahia",
        "First name" : "Rym",
        "age" : 4
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d087"),
        "Last name" : "Cherif",
        "First name" : "Sami",
        "age" : 3
}
```

5. Display all the information about one person using his id :
   > db.contactlist.find({"_id : ObjectId("60060aee6ca26b76f4b8d087")})

6. Display all the contact list having age > 18 :
   > db.contactlist.find({"age" : {$gt : 18}}).pretty()

```
                              Invite de commandes - mongo                          _ □ ×
> db.contactlist.find({"_id" : ObjectId("60060aee6ca26b76f4b8d087")}).pretty()
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d087"),
        "Last name" : "Cherif",
        "First name" : "Sami",
        "age" : 3
}
> db.contactlist.find({"age" : {$gt : 18}}).pretty()
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d083"),
        "Last name" : "Ben Lahmer",
        "First name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d085"),
        "Last name" : "Fatnassi",
        "First name" : "Sarra",
        "Email" : "sarra.f@gmail.com",
        "age" : 40
}
```

7. Display all the contactlist having age>18 AND name containing "ah" :
   > db.contactlist.find({"age" : {$gt : 18}, $or : [{"Last name" : /ah/}, {"First name" : /ah/}]}).pretty()
   Or we can use the same command with $regex
   > db.contactlist.find({"age" : {$gt : 18}, $or : [{"Last name" : {$regex : /ah/}}, {"First name" : {$regex : /ah/}}]}).pretty()

```
                              Invite de commandes - mongo                          _ □ ×
> db.contactlist.find({"age" : {$gt : 18},$or : [{"Last name" : /ah/},{"First name" : /ah/}]}).pretty()
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d083"),
        "Last name" : "Ben Lahmer",
        "First name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
> db.contactlist.find({"age" : {$gt : 18},$or : [{"Last name" : {$regex : /ah/}},{"First name" :{$regex : /ah/}}]}).pretty()
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d083"),
        "Last name" : "Ben Lahmer",
        "First name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
>
```

8. Change the contact first name "Kefi Seif" by "Kefi Anis" :
   >db.contactlist.updateOne({"First name" : "Seif"}, {$set : {"First name" : "Anis"}})

9. Delete the contactlist having age < 5 :
   > db.contactlist.deleteMany({"age" : {$lt : 5}})

10. Display all the contactlist :
    > db.contactlist.find().pretty()

```
Invite de commandes - mongo

> db.contactlist.updateOne({"First name" : "Seif"},{$set : {"First name" : "Anis"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.contactlist.deleteMany({"age" : {$lt : 5}})
{ "acknowledged" : true, "deletedCount" : 2 }
> db.contactlist.find().pretty()
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d083"),
        "Last name" : "Ben Lahmer",
        "First name" : "Fares",
        "Email" : "fares@gmail.com",
        "age" : 26
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d084"),
        "Last name" : "Kefi",
        "First name" : "Anis",
        "Email" : "kefi@gmail.com",
        "age" : 15
}
{
        "_id" : ObjectId("60060aee6ca26b76f4b8d085"),
        "Last name" : "Fatnassi",
        "First name" : "Sarra",
        "Email" : "sarra.f@gmail.com",
        "age" : 40
}
>
```