

Running **mongo** in the terminal :

```
C:\Users\WIKI>mongo
MongoDB shell version v4.4.4
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("0c516367-a182-421b-a6fc-e060ab804216") }
MongoDB server version: 4.4.4
---
The server generated these startup warnings when booting:
  2021-03-12T11:16:02.158+01:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted.
---
  Enable MongoDB's free cloud-based monitoring service, which will then receive and display
  metrics about your deployment (disk utilization, CPU, operation statistics, etc).

  The monitoring data will be available on a MongoDB website with a unique URL accessible to you
  and anyone you share the URL with. MongoDB may use this information to make product
  improvements and to suggest MongoDB products and deployment options to you.

  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
```

Creating a database called "**contact_database**" :

```
> use contact_database
switched to db contact_database
```

Creating a collection called "**contactList**" :

```
> db.createCollection("contactList")
{ "ok" : 1 }
```

Inserting new documents in "**contactlist**"collecting using :

- the insert.One method :

```
> db.contactList.insertOne({Last_name: "Ben Lahmer", First_name: "Fares", Email: "fares@gmail.com", age:26})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("604bdce5ec89e054e988ba28")
}
```

- Using the insertMany method :

```
> db.contactList.insertMany([{"Lastname": "Kefi", Firstname: "Seif", Email: "kefi@gmail.com", age:15}, {"Lastname": "Fatnassi", Firstname: "Sarrah", Email: "sarrah.f@gmail.com", age:40}, {"Lastname": "Ben Yahia", Firstname: "Rym", age:4}, {"Lastname": "Cherif", Firstname: "Sami", age:3}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("604be0c6ec89e054e988ba29"),
    ObjectId("604be0c6ec89e054e988ba2a"),
    ObjectId("604be0c6ec89e054e988ba2b"),
    ObjectId("604be0c6ec89e054e988ba2c")
  ]
}
```

Displaying all the content of the contactList collection :

- In the terminal

```
> db.contactlist.find()
{ "_id" : ObjectId("604bdce5ec89e054e988ba28"), "Last_name" : "Ben Lahmer", "First_name" : "Fares", "Email" : "fares@gmail.com", "age" : 26 }
{ "_id" : ObjectId("604be0c6ec89e054e988ba29"), "Lastname" : "Kefi", "Firstname" : "Seif", "Email" : "kefi@gmail.com", "age" : 15 }
{ "_id" : ObjectId("604be0c6ec89e054e988ba2a"), "Lastname" : "Fatnassi", "Firstname" : "Sarrah", "Email" : "sarrah.f@gmail.com", "age" : 40 }
{ "_id" : ObjectId("604be0c6ec89e054e988ba2b"), "Lastname" : "Ben Yahia", "Firstname" : "Rym", "age" : 4 }
{ "_id" : ObjectId("604be0c6ec89e054e988ba2c"), "Lastname" : "Cherif", "Firstname" : "Sami", "age" : 3 }
```

- In the compass interface :

contact_database.contactList

DOCUMENTS 1 TOTAL SIZE 110B AVG. SIZE 110B INDEXES 1 TOTAL SIZE 20.0KB AVG 20

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET

ADD DATA VIEW {} REFRESH

Displaying documents 1 - 5 of 5

```
_id: ObjectId("604bdce5ec89e054e988ba28")
Last_name: "Ben Lahmer"
First_name: "Fares"
Email: "fares@gmail.com"
age: 26
```

```
_id: ObjectId("604be0c6ec89e054e988ba29")
Lastname: "Kefi"
Firstname: "Seif"
Email: "kefi@gmail.com"
age: 15
```

```
_id: ObjectId("604be0c6ec89e054e988ba2a")
Lastname: "Fatnassi"
Firstname: "Sarrah"
Email: "sarrah.f@gmail.com"
age: 40
```

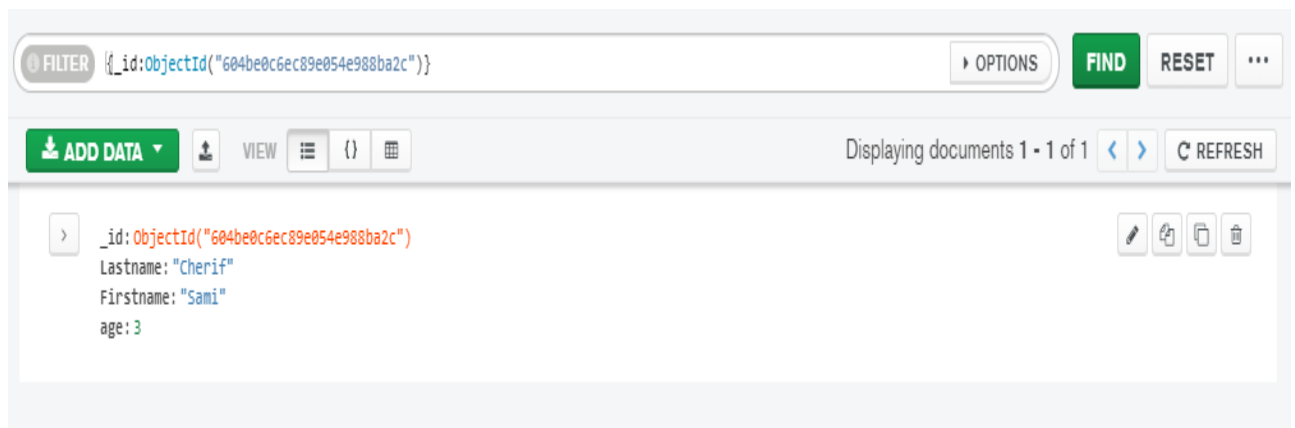
```
_id: ObjectId("604be0c6ec89e054e988ba2b")
Lastname: "Ben Yahia"
Firstname: "Rym"
```

Displaying the information about only one person using his id :

- In the terminal :

```
> db.contactlist.find({"_id" : ObjectId("604bdce5ec89e054e988ba28")}).pretty()
{
  "_id" : ObjectId("604bdce5ec89e054e988ba28"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
```

- In the compass interface :



Displaying all the contact list having age>18 :

```
> db.contactList.find({age:{$gt:18}}).pretty()
{
  "_id" : ObjectId("604bdce5ec89e054e988ba28"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("604be0c6ec89e054e988ba2a"),
  "Lastname" : "Fatnassi",
  "Firstname" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
```

Displaying all the contact list having age>18 and name containing "ar" :

- First method :

```
> db.contactList.find({age:{$gt:18}, Firstname: /.ar.*/}).pretty()
{
  "_id" : ObjectId("604be0c6ec89e054e988ba2a"),
  "Lastname" : "Fatnassi",
  "Firstname" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
```

- Second method :

```

}
> db.contactList.find({age:{$gt:18}, Firstname: /.*ar.*/}).pretty()
{
  "_id" : ObjectId("604be0c6ec89e054e988ba2a"),
  "Lastname" : "Fatnassi",
  "Firstname" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
>

```

Changing the contact first name of "kefi Seif" by "Kefi Anis" :

```

> db.contactList.updateOne({_id:ObjectId("604be0c6ec89e054e988ba29")},{set:{Firstname:"Anis"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
>

```

Deleting the the contact list having age < 5 :

```

> db.contactList.remove({age:{$lt:5}})
WriteResult({ "nRemoved" : 2 })
>

```

Displaying all the contact list :

- In the terminal :

```

com , age : 40 }
> db.contactList.find().pretty()
{
  "_id" : ObjectId("604bdce5ec89e054e988ba28"),
  "Last_name" : "Ben Lahmer",
  "First_name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}

{
  "_id" : ObjectId("604be0c6ec89e054e988ba29"),
  "Lastname" : "Kefi",
  "Firstname" : "Anis",
  "Email" : "kefi@gmail.com",
  "age" : 15
}

{
  "_id" : ObjectId("604be0c6ec89e054e988ba2a"),
  "Lastname" : "Fatnassi",
  "Firstname" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}

```

- In the compass interface :

Documents

Aggregations

Schema

Explain Plan

Indexes

Validation

FILTER { field: 'value' }

OPTIONS

FIND

RES

ADD DATA



VIEW



Displaying documents 1 - 3 of 3



```
_id: ObjectId("604bdce5ec89e054e988ba28")
Last_name: "Ben Lahmer"
First_name: "Fares"
Email: "fares@gmail.com"
age: 26
```

```
_id: ObjectId("604be0c6ec89e054e988ba29")
Lastname: "Kefi"
Firstname: "Anis"
Email: "kefi@gmail.com"
age: 15
```

```
_id: ObjectId("604be0c6ec89e054e988ba2a")
Lastname: "Fatnassi"
Firstname: "Sarrah"
Email: "sarrah.f@gmail.com"
age: 40
```