

## Creating a database :

```
MongoDB server version: 4.4.4
---
The server generated these startup warnings when booting:
  2021-03-22T15:34:47.273+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()
---
> use contact_database
switched to db contact_database
>
```

## Creating a collection :

```
> use contact_database
switched to db contact_database
> db.createCollection('contactlist')
{ "ok" : 1 }
>
```

## Inserting documents in collection :

```
> db.contactlist.insertMany([
  {lastName: "Ben Lahmer", firstName: "Fares", email: "fares@gmail.com", age: 26},
  {lastName: "Kefi", firstName: "Self", email: "kefi@gmail.com", age: 15},
  {lastName: "Fatnassi", firstName: "Sarrra", email: "sarrra.f@gmail.com", age: 40},
  {lastName: "Ben Yahia", firstName: "Rym", age: 4},
  {lastName: "Cherif", firstName: "Sami", age: 3}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("6058d090b04c184d1969e926"),
    ObjectId("6058d090b04c184d1969e927"),
    ObjectId("6058d090b04c184d1969e928"),
    ObjectId("6058d090b04c184d1969e929"),
    ObjectId("6058d090b04c184d1969e92a")
  ]
}
```

## Displaying all the content in the terminal :

```
> db.contactlist.find()
{ "_id" : ObjectId("6058d090b04c184d1969e926"), "lastName" : "Ben Lahmer", "firstName" : "Fares", "email" : "fares@gmail.com", "age" : 26 }
{ "_id" : ObjectId("6058d090b04c184d1969e927"), "lastName" : "Kefi", "firstName" : "Self", "email" : "kefi@gmail.com", "age" : 15 }
{ "_id" : ObjectId("6058d090b04c184d1969e928"), "lastName" : "Fatnassi", "firstName" : "Sarrra", "email" : "sarrra.f@gmail.com", "age" : 40 }
{ "_id" : ObjectId("6058d090b04c184d1969e929"), "lastName" : "Ben Yahia", "firstName" : "Rym", "age" : 4 }
{ "_id" : ObjectId("6058d090b04c184d1969e92a"), "lastName" : "Cherif", "firstName" : "Sami", "age" : 3 }
```

## Displaying all the content in the compass interface :

contact\_database.contactList

DOCUMENTS 5 TOTAL SIZE 470B AVG. SIZE 94B INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' } OPTIONS FIND RESET ...

ADD DATA VIEW {}

Displaying documents 1 - 5 of 5 REFRESH

```

{
  "_id": ObjectId("6058d090b04c184d1969e926"),
  "lastName": "Ben Lahmer",
  "firstName": "Fares",
  "email": "fares@gmail.com",
  "age": 26
}

{
  "_id": ObjectId("6058d090b04c184d1969e927"),
  "lastName": "Kefi",
  "firstName": "Seif",
  "email": "kefi@gmail.com",
  "age": 15
}

{
  "_id": ObjectId("6058d090b04c184d1969e928"),
  "lastName": "Fatnassi",
  "firstName": "Sarrra",
  "email": "sarrra.f@gmail.com",
  "age": 40
}

{
  "_id": ObjectId("6058d090b04c184d1969e929"),
  "lastName": "Ben Yahia",
  "firstName": "Rym",
  "age": 4
}

```

Displaying the information about only one person in the terminal using his ID :

```

> db.contactList.find({"_id" : ObjectId("6058d090b04c184d1969e926")}).pretty()
{
  "_id" : ObjectId("6058d090b04c184d1969e926"),
  "lastName" : "Ben Lahmer",
  "firstName" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}

```

In the compass interface :

contact\_database.contactList

DOCUMENTS 5 TOTAL SIZE 470B AVG. SIZE 94B INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { "\_id": ObjectId("6058d090b04c184d1969e926") } OPTIONS FIND RESET ...

ADD DATA VIEW {}

Displaying documents 1 - 1 of 1 REFRESH

```

{
  "_id": ObjectId("6058d090b04c184d1969e926"),
  "lastName": "Ben Lahmer",
  "firstName": "Fares",
  "email": "fares@gmail.com",
  "age": 26
}

```

Displaying all the contact list having age > 18 :

```

> db.contactList.find({age:{>:18}}).pretty()
{
  "_id" : ObjectId("6058d090b04c184d1969e926"),
  "lastName" : "Ben Lahmer",
  "firstName" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}

{
  "_id" : ObjectId("6058d090b04c184d1969e928"),
  "lastName" : "Fatnassi",
  "firstName" : "Sarrra",
  "email" : "sarrra.f@gmail.com",
  "age" : 40
}

```

Displaying all the contact list having age > 18 and name containing « ah » :

```
> db.contactList.find({age:{>:18}, firstName: /.ah*/}).pretty()
{
  "_id" : ObjectId("6058d090b04c184d1969e926"),
  "lastName" : "Ben Lahmer",
  "firstName" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("6058d090b04c184d1969e928"),
  "lastName" : "Fatnassi",
  "firstName" : "Sarra",
  "email" : "sarra.f@gmail.com",
  "age" : 40
}
```

Updating the information of one contact :

```
> db.contactList.updateOne({"_id" : ObjectId("6058d090b04c184d1969e927")},{ $set:{firstName:"Anis"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
```

Deleting the contacts with age < 5 :

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

Displaying the contact list in the terminal :

```
> db.contactList.find().pretty()
{
  "_id" : ObjectId("6058d090b04c184d1969e926"),
  "lastName" : "Ben Lahmer",
  "firstName" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("6058d090b04c184d1969e927"),
  "lastName" : "Kefi",
  "firstName" : "Anis",
  "email" : "kefi@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("6058d090b04c184d1969e928"),
  "lastName" : "Fatnassi",
  "firstName" : "Sarra",
  "email" : "sarra.f@gmail.com",
  "age" : 40
}
```

In the compass interface :

## contact\_database.contactList

DOCUMENTS 5 TOTAL SIZE 470B AVG. SIZE 94B INDEXES 1 TOTAL SIZE 20.0KB AVG. SIZE 20.0KB

Documents Aggregations Schema Explain Plan Indexes Validation

Displaying documents 1 - 3 of 3

```
_id: ObjectId("6058d090b04c184d1969e926")
lastName: "Ben Lahmer"
firstName: "Fares"
email: "fares@gmail.com"
age: 26
```

```
_id: ObjectId("6058d090b04c184d1969e927")
lastName: "Kefi"
firstName: "Anis"
email: "kefi@gmail.com"
age: 15
```

```
_id: ObjectId("6058d090b04c184d1969e928")
lastName: "Fatnassi"
firstName: "Sarrah"
email: "sarrah.f@gmail.com"
age: 40
```