

## Connect to MongoDB and Create collection

```
Microsoft Windows [version 10.0.19045.4525]
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C:\Users\EXTRA>mongo
Current MongoDB Log ID: 668d9929e5830dfe7ecc8987
Connecting to:      mongodb://127.0.0.1:27027/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongoosh-2.2.10
Using MongoDB:      7.0.12
Using Mongoosh:      2.2.10
Mongoosh 2.2.11 is available for download: https://www.mongodb.com/try/download/shell

For mongoosh info see: https://docs.mongodb.com/mongoosh-shell/

*****
The server generated these startup warnings when booting
  2024-07-01T20:13:48.591+01:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
*****

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

## Insert documents

```
contact> db.contactlist.insertMany([
...   {
...     "lastName": "Ben",
...     "firstName": "Moris",
...     "email": "ben@gmail.com",
...     "age": 26
...   },
...   {
...     "lastName": "Kefi",
...     "firstName": "Seif",
...     "email": "kefi@gmail.com",
...     "age": 15
...   },
...   {
...     "lastName": "Emilie",
...     "firstName": "brouge",
...     "email": "emilie.b@gmail.com",
...     "age": 40
...   },
...   {
...     "lastName": "Alex",
...     "firstName": "brown",
...   },
contact>
...   },
...   {
...     "lastName": "Denzel",
...     "firstName": "Washington",
...     "age": 3
...   }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('668d9929e5830dfe7ecc8988'),
    '1': ObjectId('668d9929e5830dfe7ecc8989'),
    '2': ObjectId('668d9929e5830dfe7ecc898a'),
    '3': ObjectId('668d9929e5830dfe7ecc898b'),
    '4': ObjectId('668d9929e5830dfe7ecc898c')
  }
}
```

Display all contacts

```
contact> db.contactlist.find()
[
  {
    _id: ObjectId('668d9929e5830dfe7ecc8988'),
    lastName: 'Ben',
    firstName: 'Moris',
    email: 'ben@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('668d9929e5830dfe7ecc8989'),
    lastName: 'kefi',
    firstName: 'Seif',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('668d9929e5830dfe7ecc898a'),
    lastName: 'Emilie',
    firstName: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  },
  {
    _id: ObjectId('668d9929e5830dfe7ecc898b'),
    lastName: 'Alex',
    firstName: 'brown',
    age: 4
  },
  {
    _id: ObjectId('668d9929e5830dfe7ecc898c'),
    lastName: 'Denzel',
    firstName: 'Washington',
    age: 3
  }
]
```

Display all the information about only one person using his ID.

```
contact> db.contactlist.findOne({ "_id": ObjectId("668d9c43b97aaf6868cc8988") })
{
  _id: ObjectId('668d9c43b97aaf6868cc8988'),
  lastName: 'Ben',
  firstName: 'Moris',
  email: 'ben@gmail.com',
  age: 26
}
```

Display contacts with age greater than 18

```
contact> db.contactlist.find({ "age": { $gt: 18 } })
[
  {
    _id: ObjectId('668d9c43b97aaf6868cc8988'),
    lastName: 'Ben',
    firstName: 'Moris',
    email: 'ben@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('668d9c43b97aaf6868cc898a'),
    lastName: 'Emilie',
    firstName: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
```

Display all the contacts with an age>18 and name containing "ili".

```
contact> db.contactlist.find({ $and: [{ age: { $gt: 18 } }, { lastName: {$regex: /ili/ }}] })
[
  {
    _id: ObjectId('668d9c43b97aaf6868cc898a'),
    lastName: 'Emilie',
    firstName: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
```

Change the contact's first name from "Kefi Seif" to "Kefi Anis".

```
contact> db.contactlist.updateOne({lastName: "Kefi",firstName: "Seif"},{$set:{firstName: "Anis"}},
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
})
contact> db.contactlist.findOne({ "_id": ObjectId("668d9c43b97aaf6868cc8989") })
{
  _id: ObjectId('668d9c43b97aaf6868cc8989'),
  lastName: 'Kefi',
  firstName: 'Anis',
  email: 'kefi@gmail.com',
  age: 15
}
```

Delete the contacts that are aged under <5.

```
test> db.contactlist.deleteMany({age:{$lt:5}})
{ acknowledged: true, deletedCount: 2 }
```

Display all of the contacts list.

```
contact> db.contactlist.find()
[ acknowledged: true, deletedCount: 2 ]
[
  {
    _id: ObjectId('668d9fcb7d9a580e0acc8988'),
    lastName: 'Ben',
    firstName: 'Moris',
    email: 'ben@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('668d9fcb7d9a580e0acc8989'),
    lastName: 'Kefi',
    firstName: 'Anis',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('668d9fcb7d9a580e0acc898a'),
    lastName: 'Emilie',
    firstName: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
```