

MongoDB (CRUD) Checkpoint

- Create a database called "contact"
- Create a collection called "contactlist"

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000

C:\Users\TOSHIBA>mongosh
Current Mongosh Log ID: 657f825e5208dc00a1447c35
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.2
Using MongoDB:      7.0.3
Using Mongosh:       2.0.2
mongosh 2.1.1 is available for download: https://www.mongodb.com/try/download/shell

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

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  The server generated these startup warnings when booting
  2023-12-16T20:59:26.487+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 }
contact>
```

Insert to the collection contactlist :

```
contact> db.contactList.insertMany([
  { LastName: "Ben Lahmer",
    ... FirstName: "Fares",
    ... Email: "fares@gmail.com",
    ... age: 26 },
  { LastName: "Kefi",
    ... FirstName: "Seif",
    ... Email: "kefi@gmail.com",
    ... age: 15 },
  { LastName: "Fatnassi",
    ... FirstName: "Sarra",
    ... Email: "sarra.f@gmail.com",
    ... age: 40 },
  { LastName: "Ben Yahia",
    ... FirstName: "Rym",
    ... age: 4 },
  { LastName: "Cherif",
    ... FirstName: "Sami",
    ... age: 3 }])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("657f87345208dc00a1447c36"),
    '1': ObjectId("657f87345208dc00a1447c37"),
    '2': ObjectId("657f87345208dc00a1447c38"),
    '3': ObjectId("657f87345208dc00a1447c39"),
    '4': ObjectId("657f87345208dc00a1447c3a")
  }
}
contact>
```

Display all of the contacts list :

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactList.find({})
[
  {
    _id: ObjectId("657f87345208dc00a1447c36"),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("657f87345208dc00a1447c37"),
    LastName: 'kefi',
    FirstName: 'Seif',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId("657f87345208dc00a1447c38"),
    LastName: 'Fatnassi',
    FirstName: 'Sarrra',
    Email: 'sarrra.f@gmail.com',
    age: 40
  },
  {
    _id: ObjectId("657f87345208dc00a1447c39"),
    LastName: 'Ben Yahia',
    FirstName: 'Rym',
    age: 4
  },
  {
    _id: ObjectId("657f87345208dc00a1447c3a"),
    LastName: 'Cherif',
    FirstName: 'Sami',
    age: 3
  }
]
contact>
```

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

```
contact> db.contactList.findOne({_id: ObjectId("657f87345208dc00a1447c3a")})
{
  _id: ObjectId("657f87345208dc00a1447c3a"),
  LastName: 'Cherif',
  FirstName: 'Sami',
  age: 3
}
```

Display all the contacts with an age >18 :

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactList.find({age: {$gt: 18} })
[
  {
    _id: ObjectId("657f87345208dc00a1447c36"),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("657f87345208dc00a1447c38"),
    LastName: 'Fatnassi',
    FirstName: 'Sarrra',
    Email: 'sarrra.f@gmail.com',
    age: 40
  }
]
contact>
```

Display all the contacts with an age > 18 and name containing "ah" :

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactList.find({$and: [{age: {$gt: 18}}, {$or: [{ FirstName: /ah/}, { LastName: /ah/ }]}]})
[
  {
    _id: ObjectId("657f87345208dc00a1447c36"),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  }
]
contact>
```

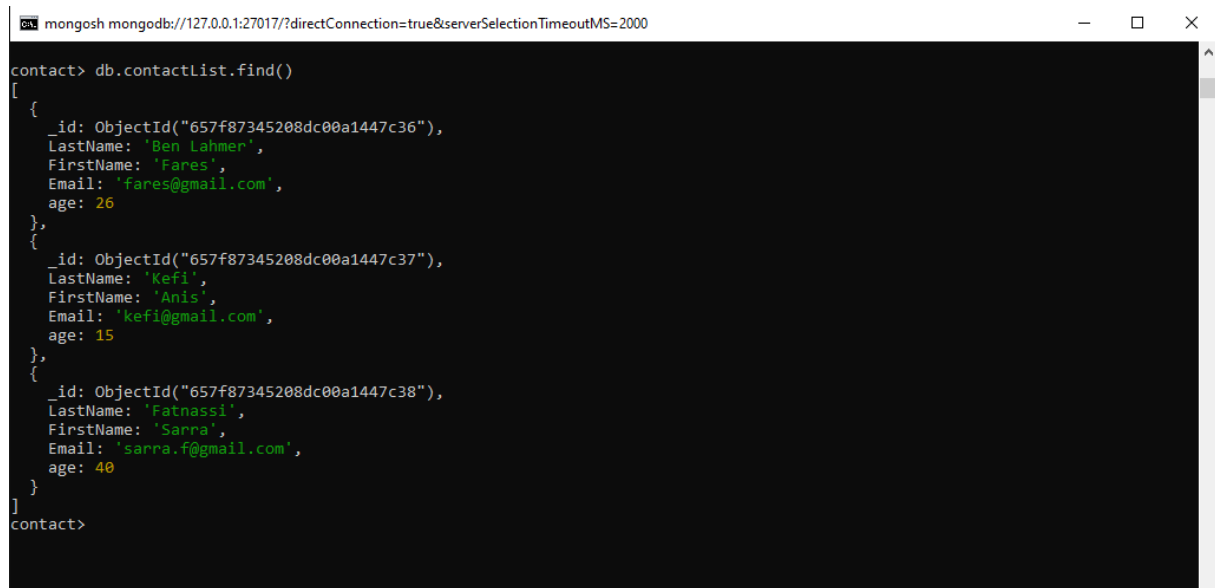
Change the contact's first name from "Kefi Seif" to "Kefi Anis" :

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactList.updateOne( { "FirstName": "Seif" }, { $set: { "FirstName": "Anis" } } )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
contact>
```

Delete the contacts that are aged under < 5 :

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactList.deleteMany({ age: { $lt: 5 } })
{ acknowledged: true, deletedCount: 2 }
contact>
```

Display all of the contacts list :



```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactList.find()
[
  {
    _id: ObjectId("657f87345208dc00a1447c36"),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("657f87345208dc00a1447c37"),
    LastName: 'Kefi',
    FirstName: 'Anis',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId("657f87345208dc00a1447c38"),
    LastName: 'Fatnassi',
    FirstName: 'Sarrah',
    Email: 'sarrah.f@gmail.com',
    age: 40
  }
]
contact>
```