

MongoDB (CRUD) Checkpoint

Checkpoint Objective

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

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.2
Microsoft Windows [Version 10.0.22621.2715]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Motahkases>mongosh
Current Mongosh Log ID: 6569a8a625abe956715b037b
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

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

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  The server generated these startup warnings when booting
  2023-11-25T14:16:30.550+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 these documents in "contactlist"

- 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

```
contact> db.contactList.insertOne({Lastname: "Ben Lahmer", Firstname:"Fares", Email:"fares@gmail.com", age:26})
{ acknowledged: true, insertedId: ObjectId("6569add725abe956715b037c") }
contact> db.contactList.insertOne({Lastname:"Kefi",Firstname:"Seif", Email:"kefi@gmail.com",age:15})
{ acknowledged: true, insertedId: ObjectId("6569aeaf25abe956715b037d") }
contact> db.contactList.insertOne({Lastname:"Fatnassi",Firstname:"Sarra", Email:"sarra.f@gmail.com",age:40})
{ acknowledged: true, insertedId: ObjectId("6569af0a25abe956715b037e") }
contact> db.contactList.insertOne({Lastname:"Ben Yahia",Firstname:"Rym",age:4})
{ acknowledged: true, insertedId: ObjectId("6569af4b25abe956715b037f") }
contact> db.contactList.insertOne({Lastname: "Cherif", Firstname:"Sami", age:3})
{ acknowledged: true, insertedId: ObjectId("6569af8125abe956715b0380") }
contact>
```

MongoDB (CRUD) Checkpoint

Display all of the contacts list

```
contact> db.contactList.find()
[
  {
    _id: ObjectId("6569add725abe956715b037c"),
    Lastname: 'Ben Lahmer',
    Firstname: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("6569aeaf25abe956715b037d"),
    Lastname: 'Kefi',
    Firstname: 'Seif',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId("6569af0a25abe956715b037e"),
    Lastname: 'Fatnassi',
    Firstname: 'Sarrah',
    Email: 'sarrah.f@gmail.com',
    age: 40
  },
  {
    _id: ObjectId("6569af4b25abe956715b037f"),
    Lastname: 'Ben Yahia',
    Firstname: 'Rym',
    age: 4
  },
  {
    _id: ObjectId("6569af8125abe956715b0380"),
    Lastname: 'Cherif',
    Firstname: 'Sami',
    age: 3
  }
]
```

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

```
contact> db.contactList.findOne({ _id: ObjectId("6569add725abe956715b037c") })
{
  _id: ObjectId("6569add725abe956715b037c"),
  Lastname: 'Ben Lahmer',
  Firstname: 'Fares',
  Email: 'fares@gmail.com',
  age: 26
}
contact>
```

MongoDB (CRUD) Checkpoint

Display all the contacts with an age >18.

```
contact> db.contactList.find({ age: { $gt: 18 } })
[
  {
    _id: ObjectId("6569add725abe956715b037c"),
    Lastname: 'Ben Lahmer',
    Firstname: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("6569af0a25abe956715b037e"),
    Lastname: 'Fatnassi',
    Firstname: 'Sarrah',
    Email: 'sarrah.f@gmail.com',
    age: 40
  }
]
contact>
```

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

```
contact> db.contactList.find({
...   $and: [
...     { age: { $gt: 18 } },
...     {
...       $or: [
...         { "Firstname": /ah/i },
...         { "Lastname": /ah/i }
...       ]
...     }
...   ]
... })
[
  {
    _id: ObjectId("6569add725abe956715b037c"),
    Lastname: 'Ben Lahmer',
    Firstname: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  }
]
```

MongoDB (CRUD) Checkpoint

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

```
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.

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

- Display all of the contacts list.

```
contact> db.contactList.find()
[
  {
    _id: ObjectId("6569add725abe956715b037c"),
    Lastname: 'Ben Lahmer',
    Firstname: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("6569aeaf25abe956715b037d"),
    Lastname: 'Kefi',
    Firstname: 'Anis',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId("6569af0a25abe956715b037e"),
    Lastname: 'Fatnassi',
    Firstname: 'Sarraf',
    Email: 'sarraf@gmail.com',
    age: 40
  }
]
```

- Display all of the contacts list.