MongoDB (CRUD) Checkpoint

1. DATABASE AND COLLECTION CREATED

```
    mongosh mongodb://localho    ×    +    ∨                                           —  □  ×

Please enter a MongoDB connection string (Default: mongodb://localhost/): mongodb://localhost/
mongodb://localhost/
Current Mongosh Log ID: 65869cd71cef65e2f51474f3
Connecting to:          mongodb://localhost/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.1
Using MongoDB:          7.0.4
Using Mongosh:          2.1.1

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

------
   The server generated these startup warnings when booting
   2023-12-21T11:07:19.110+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> |
```

2. NEW DOCUMENTS INSERTED INTO COLLECTION

```
    mongosh mongodb://localho    ×    +    ∨                                           —  □  ×

contact> db.contactlist.insertMany([{  "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 }])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('65869eb41cef65e2f51474f4'),
    '1': ObjectId('65869eb41cef65e2f51474f5'),
    '2': ObjectId('65869eb41cef65e2f51474f6'),
    '3': ObjectId('65869eb41cef65e2f51474f7'),
    '4': ObjectId('65869eb41cef65e2f51474f8')
  }
}
contact> |
```

3.   DISPLAY ALL INFORMATION ABOUT ONLY ONE PERSON (USING HIS ID)

```
contact> db.contactlist.findOne({_id:ObjectId("65869eb41cef65e2f51474f5")})
{
  _id: ObjectId('65869eb41cef65e2f51474f5'),
  'Last name': 'Kefi',
  'First name': 'Seif',
  Email: 'kefi@gmail.com',
  age: 15
}
contact>
```

4.   ALL CONTACT WITH AGE GREATER THAN 18

```
contact> db.contactlist.find({age:{$gt:18}})
[
  {
    _id: ObjectId('65869eb41cef65e2f51474f4'),
    'Last name': 'Ben Lahmer',
    'First name': 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('65869eb41cef65e2f51474f6'),
    'Last name': 'Fatnassi',
    'First name': 'Sarra',
    Email: 'sarra.f@gmail.com',
    age: 40
  }
]
contact>
```

5.   ALL CONTACT WITH AGE GREATER THAN 18 AND NAME CONTAINING 'AH'

```
contact> db.contactlist.find({$and:[{age:{$gt:18}}, {$or:[{'Last name':/ah/}, {'First name':/ah/}]}]})
[
  {
    _id: ObjectId('65869eb41cef65e2f51474f4'),
    'Last name': 'Ben Lahmer',
    'First name': 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  }
]
contact>
```

6.   CHANGE THE CONTACT'S FIRST NAME FROM "KEFI SEIF" TO "KEFI ANIS"

```
contact> db.contactlist.updateMany({$and:[{'Last name': 'Kefi'}, {'First name': 'Seif'}]}, {$set:{'First name': 'Anis'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

7.   DELETE CONTACTS AGED UNDER 5 YEARS

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

8. DISPLAY ALL CONTACTS

```
contact> db.contactlist.find()
[
  {
    _id: ObjectId('65869eb41cef65e2f51474f4'),
    'Last name': 'Ben Lahmer',
    'First name': 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('65869eb41cef65e2f51474f5'),
    'Last name': 'Kefi',
    'First name': 'Anis',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('65869eb41cef65e2f51474f6'),
    'Last name': 'Fatnassi',
    'First name': 'Sarra',
    Email: 'sarra.f@gmail.com',
    age: 40
  }
]
contact>
```