

# MongoDB CRUD Checkpoint Report

---

## Step 1: Create Database

```
test> use contact
...
switched to db contact
contact>
```

Screenshot: \_\_\_\_\_

## Step 2: Create Collection and Insert Documents

Screenshot: \_\_\_\_\_

```
contact> db.contactlist.insertMany([
...   { last_name: "Ben", first_name: "Moris", email: "ben@gmail.com", age: 26 },
...   { last_name: "Kefi", first_name: "Seif", email: "kefi@gmail.com", age: 15 },
...   { last_name: "Emilie", first_name: "brouge", email: "emilie.b@gmail.com", age: 40 },
...   { last_name: "Alex", first_name: "brown", age: 4 },
...   { last_name: "Denzel", first_name: "Washington", age: 3 }
... ])
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('681da550c1d77c51b46c4bd0'),
    '1': ObjectId('681da550c1d77c51b46c4bd1'),
    '2': ObjectId('681da550c1d77c51b46c4bd2'),
    '3': ObjectId('681da550c1d77c51b46c4bd3'),
    '4': ObjectId('681da550c1d77c51b46c4bd4')
  }
}
contact>
```

### Step 3: Display All Contacts

```
contact> db.contactlist.find()
...
[
  {
    _id: ObjectId('681da550c1d77c51b46c4bd0'),
    last_name: 'Ben',
    first_name: 'Moris',
    email: 'ben@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd1'),
    last_name: 'Kefi',
    first_name: 'Seif',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd2'),
    last_name: 'Emilie',
    first_name: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd3'),
    last_name: 'Alex',
    first_name: 'brown',
    age: 4
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd4'),
    last_name: 'Denzel',
    first_name: 'Washington',
    age: 3
  }
]
contact> |
```

Screenshot: \_\_\_\_\_

### Step 4: Display One Contact by ID

Screenshot: \_\_\_\_\_

```
contact> db.contactlist.findOne({ _id: ObjectId('681da550c1d77c51b46c4bd4') })
...
{
  _id: ObjectId('681da550c1d77c51b46c4bd4'),
  last_name: 'Denzel',
  first_name: 'Washington',
  age: 3
}
contact>
```

### Step 5: Display Contacts with Age > 18

```
contact> db.contactlist.find({ age: { $gt: 18 } })
...
[
  {
    _id: ObjectId('681da550c1d77c51b46c4bd0'),
    last_name: 'Ben',
    first_name: 'Moris',
    email: 'ben@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd2'),
    last_name: 'Emilie',
    first_name: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
contact>
```

Screenshot: \_\_\_\_\_

### Step 6: Display Contacts with Age > 18 and Name Containing 'ah'

Screenshot: \_\_\_\_\_

```
contact> db.contactlist.find({
...   age: { $gt: 18 },
...   first_name: { $regex: "ah", $options: "i" }
... })
...
contact> |
```

### Step 7: Update First Name from 'Kefi Seif' to 'Kefi Anis'

```
contact> db.contactlist.updateOne(
...   { last_name: "Kefi", first_name: "Seif" },
...   { $set: { first_name: "Anis" } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
contact> |
```

Screenshot: \_\_\_\_\_

## Step 8: Delete Contacts with Age < 5

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

Screenshot: \_\_\_\_\_

## Step 9: Display Updated Contact List

Screenshot: \_\_\_\_\_

```
contact> db.contactlist.find()
...
[
  {
    _id: ObjectId('681da550c1d77c51b46c4bd0'),
    last_name: 'Ben',
    first_name: 'Moris',
    email: 'ben@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd1'),
    last_name: 'Kefi',
    first_name: 'Anis',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('681da550c1d77c51b46c4bd2'),
    last_name: 'Emilie',
    first_name: 'brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
contact> |
```