MongoDB Checkpoint

➢ **Create a database called "contact"**

➢ **Create a collection called "contactlist"**

➢ **Insert documents in "contactlist"**

```
E:\9raya\FullstackWeb Checkpoints\MongoDB>mongosh
Current Mongosh Log ID: 63a044c147e5586958cd41f6
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.6.1
Using MongoDB:          6.0.3
Using Mongosh:          1.6.1

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


To help improve our products, anonymous usage data is collected and sent to MongoDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

------
   The server generated these startup warnings when booting
   2022-12-19T12:01:13.756+01:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
------


------
   Enable MongoDB's free cloud-based monitoring service, which will then receive and display
   metrics about your deployment (disk utilization, CPU, operation statistics, etc).

   The monitoring data will be available on a MongoDB website with a unique URL accessible to you
   and anyone you share the URL with. MongoDB may use this information to make product
   improvements and to suggest MongoDB products and deployment options to you.

   To enable free monitoring, run the following command: db.enableFreeMonitoring()
   To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
------
```

```
test> show dbs
admin    40.00 KiB
config   60.00 KiB
local    72.00 KiB
test> use contact
switched to db contact
contact>
```

```
switched to db contact
contact> db.contactlist.insertMany([{"Last name":"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 nam
e":"Cherif","First name":"Sami","age":3}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("63a056e9bf9bd0ec08a379d2"),
    '1': ObjectId("63a056e9bf9bd0ec08a379d3"),
    '2': ObjectId("63a056e9bf9bd0ec08a379d4"),
    '3': ObjectId("63a056e9bf9bd0ec08a379d5"),
    '4': ObjectId("63a056e9bf9bd0ec08a379d6")
  }
}
contact>
```

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

```
contact> db.contactlist.find({_id : ObjectId("63a056e9bf9bd0ec08a379d3")})
[
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d3"),
    'Last name': 'Kefi',
    'First name': 'Seif',
    Email: 'kefi@gmail.com',
    age: 15
  }
]
contact>
```

➢ **Display all the contacts with an age >18**

```
contact> db.contactlist.find({"age" : {$gt : 18}})
[
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d2"),
    'Last name': 'Lahmer',
    'First name': 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d4"),
    'Last name': 'Fatnassi',
    'First name': 'Sarra',
    Email: 'sarra.f@gmail.com',
    age: 40
  }
]
contact>
```

➢ **Display all the contacts with an age>18 and name containing "ah".**

```
contact> db.contactlist.find({"age" : {$gt : 18},"Last name":{$regex : /ah+/ }})
[
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d2"),
    'Last name': 'Lahmer',
    'First name': 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  }
]
```

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

```
contact> db.contactlist.updateOne({"Last name":"Kefi"},{$set:{"First name":"Anis"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
contact> db.contactlist.find({"Last name":"Anis"})

contact> db.contactlist.find({"First name":"Anis"})
[
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d3"),
    'Last name': 'Kefi',
    'First name': 'Anis',
    Email: 'kefi@gmail.com',
    age: 15
  }
]
contact>
```

➢ **Delete the contacts that are aged under <5.**

```
contact> db.contactlist.find({"age":{$lt : 5}})
[
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d5"),
    'Last name': 'Ben Yahia',
    'First name': 'Rym',
    age: 4
  },
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d6"),
    'Last name': 'Cherif',
    'First name': 'Sami',
    age: 3
  }
]
contact> db.contactlist.deleteMany({"age":{$lt : 5}})
{ acknowledged: true, deletedCount: 2 }
contact> db.contactlist.find({"age":{$lt : 5}})

contact>
```

➢ **Display all of the contacts list.**

```
contact> db.contactlist.find()
[
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d2"),
    'Last name': 'Lahmer',
    'First name': 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d3"),
    'Last name': 'Kefi',
    'First name': 'Anis',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId("63a056e9bf9bd0ec08a379d4"),
    'Last name': 'Fatnassi',
    'First name': 'Sarra',
    Email: 'sarra.f@gmail.com',
    age: 40
  }
]
contact>
```