

## Assignment 1(Part 3)

### [GitHub link](#)

Note: Please refer to the GitHub link for the command execution in case of unclear

Create a database for a Contact Management System in MongoDB.  
You could use any attributes you like, first name, last name, phone, address, zip, etc.  
Create 5 records with different attributes and values you choose.

```
Last login: Sun May 22 19:15:14 on ttys000
19:16:19 ~ master # cd /opt/homebrew/opt/mongodb-community@4.4
19:16:59 /opt/homebrew/opt/mongodb-community@4.4 ~ stable # ./bin/mongo
MongoDB shell version v4.4.13
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("a01696d8-9bf6-4726-a9c9-e217f9433a5b") }
MongoDB server version: 4.4.13
---
The server generated these startup warnings when booting:
  2022-05-22T18:45:53.563-04:00: 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()
---
> show dbs
admin      0.000GB
config     0.000GB
local      0.000GB
nysedb     0.044GB
> use cms
switched to db cms
> db.contact.insert(
... {
...   "first_name": "Gerrard",
...   "last_name": "Tallowin",
...   "address": "01 Buena Vista Alley",
...   "city": "San Francisco",
...   "country": "United States",
...   "state": "CA",
...   "zip_code": "94142",
...   "phone": "415-369-7442",
...   "email": "gtallowin@java.com"
... }
WriteResult({ "nInserted" : 1 })
```

```
> show dbs
admin    0.000GB
config  0.000GB
local    0.000GB
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...   "country": "United States",
...   "state": "CA",
...   "zip_code": "94142",
...   "phone": "415-369-7442",
...   "email": "gtallowin0@java.com"
... } )
WriteResult({ "nInserted" : 1 })
```

```
> show collections
contact
> db.contact.count()
10
> db.contact.findOne()
{
  "_id" : ObjectId("628ac47ffe655f5bb80f09ba"),
  "first_name" : "Gerrard",
  "last_name" : "Tallowin",
  "address" : "01 Buena Vista Alley",
  "city" : "San Francisco",
  "country" : "United States",
  "state" : "CA",
  "zip_code" : "94142",
  "phone" : "415-369-7442",
  "email" : "gtallowin0@java.com"
}
> █
```

Then delete any one record of your choice.

```
> db.contact.findOne()
{
  "_id" : ObjectId("628ac47ffe655f5bb80f09ba"),
  "first_name" : "Gerrard",
  "last_name" : "Tallowin",
  "address" : "01 Buena Vista Alley",
  "city" : "San Francisco",
  "country" : "United States",
  "state" : "CA",
  "zip_code" : "94142",
  "phone" : "415-369-7442",
  "email" : "gtallowin0@java.com"
}
> db.contact.count()
10
> db.contact.remove({first_name: "Gerrard"})
WriteResult({ "nRemoved" : 1 })
> db.contact.count()
9
> db.contact.find({first_name: "Gerrard"})>
```

Then update some information from any one of the records of your choice

```
> db.contact.find({first_name: "Umberto"}).pretty()

{
  "_id" : ObjectId("628ac581fe655f5bb80f09c2"),
  "first_name" : "Umberto",
  "last_name" : "Dunderdale",
  "address" : "1351 Clemons Hill",
  "city" : "Lawrenceville",
  "country" : "United States",
  "state" : "GA",
  "zip_code" : "30245",
  "phone" : "404-989-9633",
  "email" : "udunderdale8@cnn.com"
}
> db.contact.update({last_name: "Dunderdale"}, {$set: {last_name: "Dudley"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.contact.find({first_name: "Umberto"}).pretty()
{
  "_id" : ObjectId("628ac581fe655f5bb80f09c2"),
  "first_name" : "Umberto",
  "last_name" : "Dudley",
  "address" : "1351 Clemons Hill",
  "city" : "Lawrenceville",
  "country" : "United States",
  "state" : "GA",
  "zip_code" : "30245",
  "phone" : "404-989-9633",
  "email" : "udunderdale8@cnn.com"
}
> █
```