

CHECKPOINT MONGODB(CRUD)

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- Create a database called "contact" :

```
> use contact
switched to db contact
> db
contact
> █
```

- Create a collection called "contactlist"

```
> db.createCollection("contactlist")
{ "ok" : 1 }
> show dbs
admin      0.000GB
config     0.000GB
contact    0.000GB
local      0.000GB
> █
```

- Insert these documents in "contactlist" :

```
> db.contactlist.insert([{"Last name":"Ben Lahmer","First name":"Fares","Email":"fares@gmail.com","age":26}, {"Last name":"kefti","First name":"Seif","Email":"fEFI@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":"Sani","age":3}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 5,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
```

Display :

```
db.contactlist.find().pretty()
{
  "_id" : ObjectId("6167303af093e22a7d14df9a"),
  "Last name" : "Ben lahmer",
  "First name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("6167303af093e22a7d14df9b"),
  "Last name" : "kefi",
  "First name" : "Seif",
  "Email" : "feff@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("6167303af093e22a7d14df9c"),
  "Last name" : "Fatnassi",
  "First name" : "Sarraf",
  "Email" : "sarraf@gmail.com",
  "age" : 40
}
{
  "_id" : ObjectId("6167303af093e22a7d14df9d"),
  "Last name" : "Ben Yahia",
  "First name" : "Rym",
  "age" : 4
}
{
  "_id" : ObjectId("6167303af093e22a7d14df9e"),
  "Last name" : "Cherif",
  "First name" : "Sami",
  "age" : 3
}
>
```

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

```
> db.contactlist.find({"_id":{"_id":{"Seq": ObjectId("6167303af093e22a7d14df9e")}}})
{ "_id" : ObjectId("6167303af093e22a7d14df9e"), "Last name" : "Cherif", "First name" : "Sami", "age" : 3 }
```

CHECKPOINT

GoMyCode

- Display all the contacts with an age >18.

```
> db.contactlist.find({"age":{"$gt":18}}).pretty()
{
  "_id" : ObjectId("6167303af093e22a7d14df9a"),
  "Last name" : "Ben lahmer",
  "First name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("6167303af093e22a7d14df9c"),
  "Last name" : "Fatnassi",
  "First name" : "Sarrah",
  "Email" : "sarrah@gmail.com",
  "age" : 40
}
>
```

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

```
> db.contactlist.find({'$and' : [{"age":{"$gt":18}}, {"Last name":{"$regex":"ah"}}]})
{ "_id" : ObjectId("6167303af093e22a7d14df9a"), "Last name" : "Ben lahmer", "First name" : "Fares", "Email" : "fares@gmail.com", "age" : 26 }
>
```

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

```
> db.contactlist.findOneAndUpdate({"Last name":"kefi"},{$set:{"First name":"anis"}})
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba4"),
  "Last name" : "kefi",
  "First name" : "anis",
  "Email" : "kefi@gmail.com",
  "age" : 15
}
>
```

Change :

```
> db.contactlist.find().pretty()
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba3"),
  "Last name" : "Ben lahmer",
  "First name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba4"),
  "Last name" : "kefi",
  "First name" : "anis",
  "Email" : "fefe@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba5"),
  "Last name" : "Fatnassi",
  "First name" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba6"),
  "Last name" : "Ben Yahia",
  "First name" : "Rym",
  "age" : 4
}
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba7"),
  "Last name" : "Cherif",
  "First name" : "Sami",
  "age" : 3
}
```

- Delete the contacts that are aged under <5.

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

CHECKPOINT

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- Display all of the contacts list.

```
> db.contactlist.find().pretty()
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba3"),
  "Last name" : "Ben lahmer",
  "First name" : "Fares",
  "Email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba4"),
  "Last name" : "kefi",
  "First name" : "anis",
  "Email" : "fefi@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("6166f8d5821eb84d1c828ba5"),
  "Last name" : "Fatnassi",
  "First name" : "Sarrah",
  "Email" : "sarrah.f@gmail.com",
  "age" : 40
}
> █
```