



MongoDb CheckPoint

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mongoDB

Objective

In this checkpoint, the main idea is to manipulate mongodb CRUD operations

- Create a database called "contact" Slide 4
- Create a collection called "contactlist" Slide 4
- Insert these documents in "contactlist" : Slide 4
 - 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

Instructions



- Display all the contact list
 - Display all the information about only one person using his id Slide 6
 - Display all the contact list having age>18 Slide 6
 - Display all the contact list having age>18 and name containing "ah" Slide 7
 - Change the contact first name of "kefi Seif" by "Kefi Anis" Slide 7
 - Delete the the contact list having age < 5 Slide 8
 - Display all the contact list Slide 8
 - **NB:You have to save your work as screenshots**

Invite de commandes - mongo

Microsoft Windows [version 10.0.18363.1316]

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C:\Users\Utilisateur>mongo

MongoDB shell version v4.4.3

connecting to: mongod://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongod

Implicit session: session { "id" : UUID("fe060923-9f22-4c0c-8b45-3a4d7348c9ad") }

MongoDB server version: 4.4.3

The server generated these startup warnings when booting:

2021-01-21T10:24:40.155+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()`

> show dbs

admin 0.000GB

config 0.000GB

local 0.000GB

mylib 0.000GB

tutoDB 0.000GB

> use contact

switched to db contact

create database named "contact" by "use contact"

```
> db.contactlis.insert({last_name:'Ben Lahmer',first_name:'Fares',email:'fares@gmail.com',age:26})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db
```

```
contact
```

```
> db.contactlis.insert({last_name:'Kefi',first_name:'Seif',email:'kefi@gmail.com',age:15})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.contactlis.insert({last_name:'Fatnassi',first_name:'Sarrah',email:'sarrah.f@gmail.com',age:40})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.contactlis.insert({last_name:'Ben Yahia',first_name:'Rym',age:4})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.contactlis.insert({last_name:'Cherif',first_name:'Sami',age:3})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.contactlis.find()
```

```
>
```

```
> db.contactlis.find()
```

```
{ "_id" : ObjectId("600a0250e29cb304782e77b2"), "last_name" : "Ben Lahmer", "first_name" : "Fares", "email" : "fares@gmail.com", "age" : 26 }
```

```
{ "_id" : ObjectId("600a0296e29cb304782e77b3"), "last_name" : "Kefi", "first_name" : "Seif", "email" : "kefi@gmail.com", "age" : 15 }
```

```
{ "_id" : ObjectId("600a02cae29cb304782e77b4"), "last_name" : "Fatnassi", "first_name" : "Sarrah", "email" : "sarrah.f@gmail.com", "age" : 40 }
```

```
{ "_id" : ObjectId("600a033be29cb304782e77b5"), "last_name" : "Ben Yahia", "first_name" : "Rym", "age" : 4 }
```

```
{ "_id" : ObjectId("600a0354e29cb304782e77b6"), "last_name" : "Cherif", "first_name" : "Sami", "age" : 3 }
```

create collection called "contactlis" by
"db.contact.insert".
(we can also use "insertMany")

Display the collection by using "db.contactlis.find()"

```

> db.contactlis.find({_id: ObjectId("600a0354e29cb304782e77b6")},null)
{ "_id" : ObjectId("600a0354e29cb304782e77b6"), "last_name" : "Cherif", "first_name" : "Sami", "age" : 3 }
> db.contactlis.find({age:{$gt: 18}}).pretty()
{
  "_id" : ObjectId("600a0250e29cb304782e77b2"),
  "last_name" : "Ben Lahmer",
  "first_name" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("600a02cae29cb304782e77b4"),
  "last_name" : "Fatnassi",
  "first_name" : "Sarrah",
  "email" : "sarrah.f@gmail.com",
  "age" : 40
}

```

Display all the information about only one person using his id :

```
> db.contactlis.find({_id: ObjectId("600a0354e29cb304782e77b6")},null)
```

Display all the contact list having age>18 :

```
> db.contactlis.find({age:{$gt: 18}}).pretty()
```

```

> db.contactlis.find({$and: [{age:{$gt: 18}},{last_name:/ah/}]}).pretty()
{
  "_id" : ObjectId("600a0250e29cb304782e77b2"),
  "last_name" : "Ben Lahmer",
  "first_name" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}
> db.contactlis.update({last_name:'Kefi'},{$set: {first_name:'Anis'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.contacts.find()
> db.contactlis.find()
{ "_id" : ObjectId("600a0250e29cb304782e77b2"), "last_name" : "Ben Lahmer", "first_name" : "Fares", "email" : "fares@gmail.com", "age" : 26 }
{ "_id" : ObjectId("600a0296e29cb304782e77b3"), "last_name" : "Kefi", "first_name" : "Anis", "email" : "kefi@gmail.com", "age" : 15 }
{ "_id" : ObjectId("600a02cae29cb304782e77b4"), "last_name" : "Fatnassi", "first_name" : "Sarra", "email" : "sarra.f@gmail.com", "age" : 40 }
{ "_id" : ObjectId("600a033be29cb304782e77b5"), "last_name" : "Ben Yahia", "first_name" : "Rym", "age" : 4 }
{ "_id" : ObjectId("600a0354e29cb304782e77b6"), "last_name" : "Cherif", "first_name" : "Sami", "age" : 3 }

```

Display all the contact list having age>18 and name containing "ah" :

```
> db.contactlis.find({$and: [{age:{$gt: 18}},{last_name:/ah/}]}).pretty()
```

Change the contact first name of "kefi Seif" by "Kefi Anis" :

```
> db.contactlis.update({last_name:'Kefi'},{$set: {first_name:'Anis'}})
```



```
> db.contactlis.remove({age:{$lt: 5}})
```

```
WriteResult({ "nRemoved" : 2 })
```

```
> db.contactlis.find().pretty()
```

```
{
  "_id" : ObjectId("600a0250e29cb304782e77b2"),
  "last_name" : "Ben Lahmer",
  "first_name" : "Fares",
  "email" : "fares@gmail.com",
  "age" : 26
}
{
  "_id" : ObjectId("600a0296e29cb304782e77b3"),
  "last_name" : "Kefi",
  "first_name" : "Anis",
  "email" : "kefi@gmail.com",
  "age" : 15
}
{
  "_id" : ObjectId("600a02cae29cb304782e77b4"),
  "last_name" : "Fatnassi",
  "first_name" : "Sarra",
  "email" : "sarra.f@gmail.com",
  "age" : 40
}
```

Delete the the contact list having age < 5 :

```
> db.contactlis.remove({age:{$lt: 5}})
```

Display all the contact list :

```
> db.contactlis.find().pretty()
```