

Use database as contact and collection as contactlist to insert the first object and view

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000

test> show dbs
admin    40.00 KiB
config  96.00 KiB
local   40.00 KiB
test> use contact
switched to db contact
contact> db.contactlist.insertOne({lastname:"Ben", firstname: "Moris", email: "ben@gamil.com", age: 26})
{
  acknowledged: true,
  insertedId: ObjectId('66dfee04e3f29c69c0228fb5')
}
contact> show dbs
admin    40.00 KiB
config  96.00 KiB
contact  8.00 KiB
local   40.00 KiB
contact> show collections
contactlist
contact> db.contactlist.find()
[
  {
    _id: ObjectId('66dfee04e3f29c69c0228fb5'),
    lastname: 'Ben',
    firstname: 'Moris',
    email: 'ben@gamil.com',
    age: 26
  }
]
```

Use insertMany to insert other objects

```
contact> db.contactlist.insertMany([{"lastname":"Kefi", firstname:"Seif", email: "kefi@gmail.com", age: 30}, {"lastname":"Brouge", email:"emilie.b@gmail.com", age: 40}, {"lastname":"Alex", firstname:"Brown", email:"brown@brown.com", age: 20}, {"lastname":"Benzel", firstname:"Washington", age: 3}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('66dff4f7e3f29c69c0228fb6'),
    '1': ObjectId('66dff4f7e3f29c69c0228fb7'),
    '2': ObjectId('66dff4f7e3f29c69c0228fb8'),
    '3': ObjectId('66dff4f7e3f29c69c0228fb9')
  }
}
contact>
```

Read all objects in the collection

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutM
contact> db.contactlist.find()
[
  {
    _id: ObjectId('66dfee04e3f29c69c0228fb5'),
    lastname: 'Ben',
    firstname: 'Moris',
    email: 'ben@gamil.com',
    age: 26
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb6'),
    lastname: 'Kefi',
    firstname: 'Seif',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb7'),
    lastname: 'Emilie',
    firstname: 'Brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb8'),
    lastname: 'Alex',
    firstname: 'Brown',
    age: 4
  },
  {

```

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

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000

contact> db.contactlist.find({_id: ObjectId('66dff4f7e3f29c69c0228fb7')})
[
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb7'),
    lastname: 'Emilie',
    firstname: 'Brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
contact>
```

Display all the contacts with an age >18

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeout
contact> db.contactlist.find({age:{$gt: 18}})
[
  {
    _id: ObjectId('66dfee04e3f29c69c0228fb5'),
    lastname: 'Ben',
    firstname: 'Moris',
    email: 'ben@gamil.com',
    age: 26
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb7'),
    lastname: 'Emilie',
    firstname: 'Brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
contact>
```

Display all the contacts with an age>18 and name containing "ah". Used "ri" to illustrate.

```
C:\> mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
contact> db.contactlist.find({$and: [{age:{$gt: 18}} , {firstname:{$regex:/ri/}}])
[
  {
    _id: ObjectId('66dfee04e3f29c69c0228fb5'),
    lastname: 'Ben',
    firstname: 'Moris',
    email: 'ben@gamil.com',
    age: 26
  }
]
contact> _
```

“ou”

```
C:\> mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutM
contact> db.contactlist.find({$and: [{age:{$gt: 18}} , {firstname:{$regex:/ou/}}])
[
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb7'),
    lastname: 'Emilie',
    firstname: 'Brouge',
    email: 'emilie.b@gmail.com',
    age: 40
  }
]
contact>
```

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

```
C:\> mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=20000

contact> db.contactlist.updateOne({firstname: "Seif"},{$set:{firstname:
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
})
contact> db.contactlist.findOne({firstname:"Seif"})
null
contact> db.contactlist.findOne({firstname:"Anis"})
{
  _id: ObjectId('66dff4f7e3f29c69c0228fb6'),
  lastname: 'Kefi',
  firstname: 'Anis',
  email: 'kefi@gmail.com',
  age: 15
}
```


Delete the contacts that are aged under <5. And Display all of the contacts list.

```
C:\> mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTime

contact> db.contactlist.find({age:{$lt:5}})
[
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb8'),
    lastname: 'Alex',
    firstname: 'Brown',
    age: 4
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb9'),
    lastname: 'Denzel',
    firstname: 'Washington',
    age: 3
  }
]
contact> db.contactlist.deleteMany({age:{$lt:5}})
{ acknowledged: true, deletedCount: 2 }
contact> db.contactlist.find({age:{$lt:5}})

contact> db.contactlist.find()
[
  {
    _id: ObjectId('66dfef04e3f29c69c0228fb5'),
    lastname: 'Ben',
    firstname: 'Moris',
    email: 'ben@gamil.com',
    age: 26
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb6'),
    lastname: 'Kefi',
    firstname: 'Anis',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb7'),
    lastname: 'Kefi',
    firstname: 'Anis',
    email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb8'),
    lastname: 'Alex',
    firstname: 'Brown',
    age: 4
  },
  {
    _id: ObjectId('66dff4f7e3f29c69c0228fb9'),
    lastname: 'Denzel',
    firstname: 'Washington',
    age: 3
  }
]
```