MongoDB (CRUD) Checkpoint

Checkpoint Objective

Create a database called "contact"

Create a collection called "contactlist"

Insert these documents in "contactlist" :

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

Display all of the contacts list

```
test> use contact
switched to db contact
contact> db.contactlist.find({})
[
  {
    _id: ObjectId('6569affb0c56e3a2184744fa'),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fb'),
    LastName: 'Kefi',
    FirstName: 'Seif',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fc'),
    LastName: 'Fatnassi',
    FirstName: 'Sarra',
    Email: 'sarra.f@gmail.com',
    age: 40
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fd'),
    LastName: 'Ben Yahia',
    FirstName: 'Rym',
    age: 4
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fe'),
    LastName: 'Cherif',
    FirstName: 'Sami',
    age: 3
  }
]
contact>
```

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

```
contact> db.contactlist.findOne({ _id: ObjectId('6569affb0c56e3a2184744fd')})
{
  _id: ObjectId('6569affb0c56e3a2184744fd'),
  LastName: 'Ben Yahia',
  FirstName: 'Rym',
  age: 4
}
contact> _
```

Display all the contacts with an age >18.

```
contact> db.contactlist.find({ age: { $gt: 18 } })
[
  {
    _id: ObjectId('6569affb0c56e3a2184744fa'),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fc'),
    LastName: 'Fatnassi',
    FirstName: '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({ $and: [{ age: { $gt: 18 } },{ $or: [{ FirstName: /ah/ },{ LastName: /ah/ }]}]})
[
  {
    _id: ObjectId('6569affb0c56e3a2184744fa'),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  }
]
```

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

```
contact> db.contactlist.updateOne( { FirstName: "Seif" },{ $set: { FirstName: "Anis" } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Delete the contacts that are aged under <5.

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

Display all of the contacts list.

```
contact> db.contactlist.find()
[ acknowledged: true, deletedCount: 0 }
  {
    _id: ObjectId('6569affb0c56e3a2184744fa'),
    LastName: 'Ben Lahmer',
    FirstName: 'Fares',
    Email: 'fares@gmail.com',
    age: 26
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fb'),
    LastName: 'Kefi',
    FirstName: 'Anis',
    Email: 'kefi@gmail.com',
    age: 15
  },
  {
    _id: ObjectId('6569affb0c56e3a2184744fc'),
    LastName: 'Fatnassi',
    FirstName: 'Sarra',
    Email: 'sarra.f@gmail.com',
    age: 40
  }
]
contact>
```