

PRACTICAL 3

CRUD OPERATIONS IN MONGODB

Create a database userdb and new collection users

```
C:\Users\DELL>mongosh
Current Mongosh Log ID: 67c1a96f1d20a85b7ffa4213
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelecti
gosh+2.4.0
Using MongoDB:      7.0.16
Using Mongosh:      2.4.0

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

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  The server generated these startup warnings when booting
  2025-02-24T13:21:42.577+05:30: Access control is not enabled for the database. Read
d configuration is unrestricted
-----

test> use userdb;
switched to db userdb
userdb> db.createCollection("users")
{ ok: 1 }
```

Create Operation:

1.insertOne()

```
userdb> db.users.insertOne({
...
... name: "Angela",
...
... age: 27,
...
... });
{
  acknowledged: true,
  insertedId: ObjectId('67c1aaa81d20a85b7ffa4214')
}
```

2.insertMany()

```
userdb> db.users.insertMany([
...
... {
...
... name: "Angela",
...
... age: 27,
...
... },
...
... {
userdb>
... name: "Dwight",
...
... age: 30,
...
...
... },
...
... {
...
... name: "Jim",
...
... age: 29,
...
... }
...
... ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('67c1aabe1d20a85b7ffa4215'),
    '1': ObjectId('67c1aabe1d20a85b7ffa4216'),
    '2': ObjectId('67c1aabe1d20a85b7ffa4217')
  }
}
```

Read Operation:

1.find()

```
userdb> db.users.find()
[
  {
    _id: ObjectId('67c1aaa81d20a85b7ffa4214'),
    name: 'Angela',
    age: 27
  },
  {
    _id: ObjectId('67c1aabe1d20a85b7ffa4215'),
    name: 'Angela',
    age: 27
  },
  {
    _id: ObjectId('67c1aabe1d20a85b7ffa4216'),
    name: 'Dwight',
    age: 30
  },
  { _id: ObjectId('67c1aabe1d20a85b7ffa4217'), name: 'Jim', age: 29 }
]
userdb> db.users.find({ age: { $gt: 29 } }, { name: 1, age: 1})
[
  {
    _id: ObjectId('67c1aabe1d20a85b7ffa4216'),
    name: 'Dwight',
    age: 30
  }
]
```

2.findOne()

```
userdb> db.users.findOne({ name: "Jim" })
{ _id: ObjectId('67c1aabe1d20a85b7ffa4217'), name: 'Jim', age: 29 }
```

Update Operation:

1.UpdateOne()

```
userdb> db.users.updateOne({ name: "Angela" }, { $set: { email: "angela@gmail.com" } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

2.UpdateMany()

```
userdb> db.users.updateMany({age:{$lt:30}},{$set:{status:"active"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
```

Delete Operation:

1.deleteOne()

```
userdb> db.users.deleteOne({name:"Angela"})
{ acknowledged: true, deletedCount: 1 }
```

2.deleteMany()

```
userdb> db.users.deleteMany({age:{$lt:30}})
{ acknowledged: true, deletedCount: 2 }
```

3.drop()

```
userdb> db.users.drop()
true
```