

Practical 3 CRUD using MongoDB

Class: MSc. DSAI

Roll No.:L005

```
C:\Users\Admin>mongod --version
db version v7.0.12
Build Info: {
  "version": "7.0.12",
  "gitVersion": "b6513ce0781db6818e24619e8a461eae90bc94fc",
  "modules": [],
  "allocator": "tcmalloc",
  "environment": {
    "distmod": "windows",
    "distarch": "x86_64",
    "target_arch": "x86_64"
  }
}
```

```
C:\Users\Admin>mongosh
Current Mongosh Log ID: 6780ee94a92a8f3b34c47e25
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.4
Using MongoDB:      7.0.12
Using Mongosh:       2.1.4
mongosh 2.2.15 is available for download: https://www.mongodb.com/try/download/shell
```

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

The server generated these startup warnings when booting
2025-01-08T15:48:44.848+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

```
test> use userdb;
switched to db userdb
```

```
userdb> db.createCollection("users")
{ ok: 1 }
```

```
userdb> db.users.insertOne({
...   name: "Angela",
...   age: 27,
...   });
{
  acknowledged: true,
  insertedId: ObjectId('6780f0b1a92a8f3b34c47e26')
}
```

```
userdb> db.users.insertMany([
...   {
...     name: "Angela",
...     age: 27,
...   },
...   {
...     name: "Dwight",
...     age: 30,
...   },
...   {
...     name: "Jim",
...     age: 29,
...   }
... ]);
```

```
userdb> db.users.insertMany([ { name: "Angela", age: 27 }, { name: "Dwight",
age: 30 }, { name: "Jim", age: 29 } ] );
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6780f3daa92a8f3b34c47e27'),
    '1': ObjectId('6780f3daa92a8f3b34c47e28'),
    '2': ObjectId('6780f3daa92a8f3b34c47e29')
  }
}
```

```

userdb> db.users.find()
[
  {
    _id: ObjectId('6780f0b1a92a8f3b34c47e26'),
    name: 'Angela',
    age: 27
  },
  {
    _id: ObjectId('6780f3daa92a8f3b34c47e27'),
    name: 'Angela',
    age: 27
  },
  {
    _id: ObjectId('6780f3daa92a8f3b34c47e28'),
    name: 'Dwight',
    age: 30
  },
  {
    _id: ObjectId('6780f3daa92a8f3b34c47e29'), name: 'Jim', age: 29 }
]

```

```

userdb> db.users.find({ age: { $gt: 29 } }, { name: 1, age: 1 })
[
  {
    _id: ObjectId('6780f3daa92a8f3b34c47e28'),
    name: 'Dwight',
    age: 30
  }
]

```

```

userdb> db.users.findOne({ name: "Jim" })
{ _id: ObjectId('6780f3daa92a8f3b34c47e29'), name: 'Jim', age: 29 }

```

```

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

```

```

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

```

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

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

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