Roll no: L018 ADBMS Practical MSC DS & AI

#### #Creating a New database:

Code: mongod --

version

```
C:\Users\Admin>mongod --version
db version v6.0.13
Build Info: {
    "version": "6.0.13",
    "gitVersion": "3b13907f9bdf6bd3264d67140d6c215d51bbd20c",
    "modules": [],
    "allocator": "tcmalloc",
    "environment": {
        "distmod": "windows",
        "distarch": "x86_64",
        "target_arch": "x86_64"
}
}
```

#### mongosh

```
C:\Users\Admin>mongosh
Current Mongosh Log ID: 6780ea0e36336b93975d893f
Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2
.1.4
Using MongoDB: 6.0.13
Using Mongosh: 2.1.4
mongosh 2.2.0 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
2024-12-19110:52:33.605+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
```

#Create a database name userdb use

userdb;

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

#Creating a New Collection: db.createCollection("users")

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

#Create Operation

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

### Output:

```
{
   acknowledged: true,
   insertedIds: {
     '0': ObjectId('6780ee8936336b93975d8941'),
     '1': ObjectId('6780ee8936336b93975d8942'),
     '2': ObjectId('6780ee8936336b93975d8943')
  }
}
```

age:30, }, {name:"Jim", age:29,}]);

**#Read Operations** 

1.find() db.users.find()

```
userdb> db.users.find()
```

Output:

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db.users.find({age: {\$gt:29}}, {name:1, age:1 })

```
userdb> db.users.find({age: {$gt:29}}, {name:1, age:1 })
```

#### Output:

2.findOne()

db.users.findOne({name:"Jim"})

```
userdb> db.users.findOne({name:"Jim"})
```

Output:

```
{    id: ObjectId('6780ee8936336b93975d8943'),    name: 'Jim',    age: 29    }
```

**#Update Operations 1.updateOne()** 

Name: Manvi Jalawadiya

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db.users.updateOne({name:"Angela"},{\$set:{email:"angela@gmail.co m"} })

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

db.users.findOne({name:"Angela"})

```
userdb> db.users.findOne({name:"Angela"})
{
   _id: ObjectId('6780ece736336b93975d8940'),
   name: 'Angela',
   age: 27,
   email: 'angela@gmail.com'
}
```

2.updateMany

db.users.updateMany({ age:{\$lt: 30}}, {\$set: {status:"active"} })

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

db.users.find()

#Delete Operations 1.deleteOne()

Name: Manvi Jalawadiya

Roll no: L018 ADBMS Practical MSC DS & AI

#### db.users.deleteOne({name:"Angela"})

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

#### db.users.find()

## 2.deleteMany()

### db.users.deleteMany({age:{\$lt:30} })

# #drop() db.users.drop()

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