PRACTICAL NO – 3

Aim: CRUD using Mongodb

#Creating a New database:

Code:

mongod -version

Output:

```
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

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#Create a database name userdb

```
Code:
```

use userdb;

Output:

```
test> use userdb;
```

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

#Creating a New Collection:

Code:

db.createCollection("users")

Output:

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

#Create Operation

1.insertOne():

Code:

```
db.users.insertOne({
name:"Angela",
age:27,
});
```

```
userdb> db.users.insertOne({
... name:"Angela",
... age:27,
... });
```

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Output:

```
{
   acknowledged: true,
   insertedId: ObjectId('6780ece736336b93975d8940')
}
```

2.insertMany()

Code:

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,}]);
```

Output:

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

#Read Operations

1.find()

Code:

db.users.find()

userdb> db.users.find()

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Output:

Code:

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

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

Output:

2.findOne()

Code:

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

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

Output:

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

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#Update Operations

1.updateOne()

Code:

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
}
```

Output:

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

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

2.updateMany

Code:

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
}
```

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Output:

db.users.find()

#Delete Operations

1.deleteOne()

Code:

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

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

Output:

db.users.find()

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2.deleteMany()

Code:

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

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

Output:

#drop()

db.users.drop()

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