## **Practical - 3 ADBMS**

## **CRUD operations in MongoDB:**

Creating a new database and a new collection:

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

Inserting data/documents in the collection:

```
newdb> db.mycoll.insertMany([
... {name:"Max",age:30},
... {name:"Christine",age:22},
... {name:"Stephen",age:28}
... ]);
{
   acknowledged: true,
   insertedIds: {
     '0': ObjectId('65dc9be53fa62446c8b13b5e'),
     '1': ObjectId('65dc9be53fa62446c8b13b5f'),
     '2': ObjectId('65dc9be53fa62446c8b13b60')
   }
}
```

Reading the created collection:

Retrieving a single document using a key-value pair:

```
newdb> db.mycoll.findOne(
... {name:"Max"}
... );
{ _id: ObjectId('65dc9be53fa62446c8b13b5e'), name: 'Max', age: 30 }
```

Update a single document for a given condition:

```
newdb> db.mycoll.update(
... {name:"Max"},{$set:{email:"maximus@gmail.com"}}
... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
}
```

Updating multiple documents using a given condition:

```
newdb> db.mycoll.updateMany(
... {age:{$1t:30}},{$set:{status:"active"}}
... );
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 2,
    modifiedCount: 2,
    upsertedCount: 0
}
```

Deletion of a single document:

```
newdb> db.mycoll.deleteOne(
... {name:"Max"}
... );
{ acknowledged: true, deletedCount: 1 }
```

Deletion of multiple records in the collection using a condition:

To remove an entire collection:

```
newdb> db.mycoll.drop()
true
```