**Task 7: CRUD Operations with MongoDB**

**Create**

appdb> use appdb

appdb> db

**Insert**

appdb> db.users.insertOne({name:"John"})

{

acknowledged: true,

insertedId: ObjectId('67b9817d19bcbd74cd94ecb4') }

appdb> db.users.find()

[ { \_id: ObjectId('67b9817d19bcbd74cd94ecb4'), name: 'John' } ] : appdb> db.users.insertOne({name:"Mac",age:30,address:{street:"North Street"},hobbies:["Running"]}) { acknowledged: true,

insertedId: ObjectId('67b981ee19bcbd74cd94ecb5') }

appdb> db.users.insertMany([{name:"Jill"},{name:"Mike"}]) {

acknowledged: true, insertedIds: {

'0': ObjectId('67b9824019bcbd74cd94ecb6'), '1': ObjectId('67b9824019bcbd74cd94ecb7')

}

}

appdb> db.users.find()

[

{ \_id: ObjectId('67b9817d19bcbd74cd94ecb4'), name: 'John' }, {

\_id: ObjectId('67b981ee19bcbd74cd94ecb5'), name: 'Mac',

age: 30,

address: { street: 'North Street' },

hobbies: [ 'Running' ]

},

{ \_id: ObjectId('67b9824019bcbd74cd94ecb6'), name: 'Jill' }, { \_id: ObjectId('67b9824019bcbd74cd94ecb7'), name: 'Mike' } ]

appdb> db.users.find().sort({name:1})

[

{ \_id: ObjectId('67b9824019bcbd74cd94ecb6'), name: 'Jill' }, { \_id: ObjectId('67b9817d19bcbd74cd94ecb4'), name: 'John' }, {

\_id: ObjectId('67b981ee19bcbd74cd94ecb5'), name: 'Mac',

age: 30,

address: { street: 'North Street' },

hobbies: [ 'Running' ]

},

{ \_id: ObjectId('67b9824019bcbd74cd94ecb7'), name: 'Mike' } ]

appdb> db.users.find().sort({name:-1})

[

{ \_id: ObjectId('67b9824019bcbd74cd94ecb7'), name: 'Mike' }, {

\_id: ObjectId('67b981ee19bcbd74cd94ecb5'), name: 'Mac',

age: 30,

address: { street: 'North Street' },

hobbies: [ 'Running' ]

},

{ \_id: ObjectId('67b9817d19bcbd74cd94ecb4'), name: 'John' }, { \_id: ObjectId('67b9824019bcbd74cd94ecb6'), name: 'Jill' } ]

**Update**

appdb> db.users.updateOne({name:"Mike"},{$set: {age:32}})

{

acknowledged: true,

insertedId: null,

matchedCount: 1,

modifiedCount: 1,

upsertedCount: 0

}

appdb> db.users.find()

[

{ \_id: ObjectId('67b9817d19bcbd74cd94ecb4'), name: 'John' },

{

\_id: ObjectId('67b981ee19bcbd74cd94ecb5'),

name: 'Mac',

age: 30,

address: { street: 'North Street' },

hobbies: [ 'Running' ]

},

{ \_id: ObjectId('67b9824019bcbd74cd94ecb6'), name: 'Jill' },

{ \_id: ObjectId('67b9824019bcbd74cd94ecb7'), name: 'Mike', age: 32 }

]

appdb> db.users.updateMany({ name:{$exists:true} },{$set: {country:"India"}})

{

acknowledged: true,

insertedId: null,

matchedCount: 4,

modifiedCount: 4,

upsertedCount: 0

}

**Delete**

appdb> db.users.deleteOne({name:"John"})

{ acknowledged: true, deletedCount: 1 }

appdb> db.users.find()

[

{

\_id: ObjectId('67b981ee19bcbd74cd94ecb5'),

name: 'Mac',

age: 30,

address: { street: 'North Street' },

hobbies: [ 'Running' ],

country: 'India'

},

{

\_id: ObjectId('67b9824019bcbd74cd94ecb6'),

name: 'Jill',

age: 27,

country: 'India'

},

{

\_id: ObjectId('67b9824019bcbd74cd94ecb7'),

name: 'Mike',

age: 32,

country: 'India'

}

]