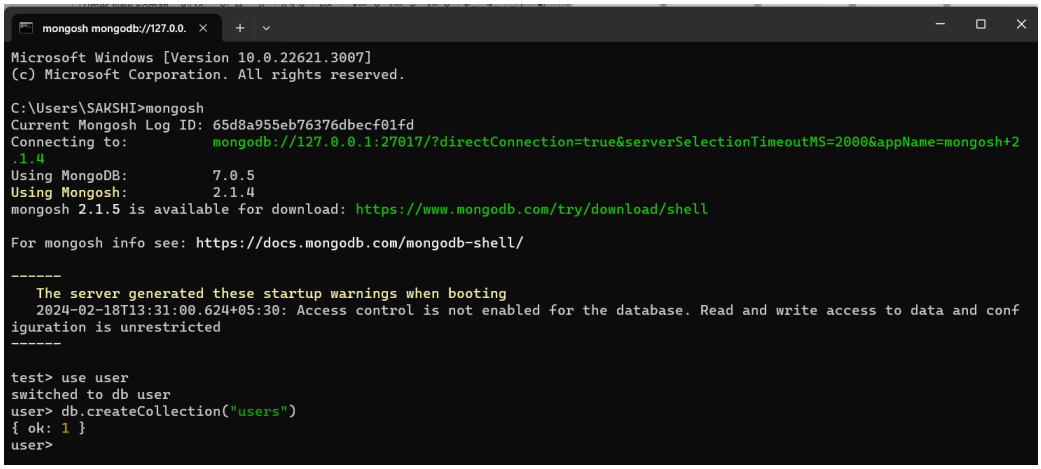
ADBMS Practical 3

MongoDB

Using a database & Creating a New Collection:



Create Operation

There are two ways to create new documents to a collection in MongoDB:

1. insertOne():

```
user> db.createCollection("users")
{ ok: 1 }
user> db.users.insertOne({
...
...   name: "Angela",
...
...   age: 27,
...
... });
{
  acknowledged: true,
  insertedId: ObjectId('65d8aa00eb76376dbecf01fe')
}
user>
```

2. insertMany()

Read Operations

1. find()

```
user> db.users.find()
[
  {
    _id: ObjectId('65d8aa00eb76376dbecf01fe'),
    name: 'Angela',
    age: 27
  },
  {
    _id: ObjectId('65d8aa5eeb76376dbecf01ff'),
    name: 'Angela',
    age: 27
  },
  {
    _id: ObjectId('65d8aa5eeb76376dbecf0200'),
    name: 'Dwight',
    age: 30
  },
  { _id: ObjectId('65d8aa5eeb76376dbecf0201'), name: 'Jim', age: 29 }
]
user>
```

2. findOne()

```
user> db.users.findOne({ name: "Jim" })
{ _id: ObjectId('65d8aa5eeb76376dbecf0201'), name: 'Jim', age: 29 }
user>
```

Update Operations

1. updateOne()

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

```
[
  {
    _id: ObjectId('65d8aa00eb76376dbecf01fe'),
    name: 'Angela',
    age: 27,
    email: 'angela@gmail.com',
    status: 'active'
  },
```

2. updateMany

```
user> db.users.updateMany({ age: { $lt: 30 } }, { $set: { status: "active" } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
user> db.users.find()
[
  {
    _id: ObjectId('65d8aa00eb76376dbecf01fe'),
    name: 'Angela',
    age: 27,
    email: 'angela@gmail.com',
    status: 'active'
  },
  {
    _id: ObjectId('65d8aa5eeb76376dbecf01ff'),
    name: 'Angela',
    age: 27,
    status: 'active'
  },
  {
    _id: ObjectId('65d8aa5eeb76376dbecf0200'),
    name: 'Dwight',
    age: 30
  },
  {
```

```
  },
  {
    _id: ObjectId('65d8aa5eeb76376dbecf0201'),
    name: 'Jim',
    age: 29,
    status: 'active'
  }
]
user>
```

Delete Operations

1. deleteOne()

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

2. deleteMany()

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

3. drop()

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