

ADBMS Practical

Practical 3: CRUD using mongoDB

1. Creating a new database.

```
Nishit> use user1;  
switched to db user1
```

2. Creating a new collection.

```
user1> db.createCollection("user")  
{ ok: 1 }
```

3. Inserting document in a collection.

```
user1> db.user.insertOne({  
... name: "Nishit",  
... age: 21,  
... });  
{  
  acknowledged: true,  
  insertedId: ObjectId('65d9889d7a382a6b45590df4')  
}
```

```
user1> db.user.insertMany([ { name: "Angela", age: 27 }, { name: "Dwight", age: 30 }, { name: "Jim", age: 29 } ] );  
{  
  acknowledged: true,  
  insertedIds: {  
    '0': ObjectId('65d98b037a382a6b45590df8'),  
    '1': ObjectId('65d98b037a382a6b45590df9'),  
    '2': ObjectId('65d98b037a382a6b45590dfa')  
  }  
}
```

4. Retrieve data from collection.

```

user1> db.user.find()
[
  {
    _id: ObjectId('65d9889d7a382a6b45590df4'),
    name: 'Nishit',
    age: 21
  },
  {
    _id: ObjectId('65d988f77a382a6b45590df5'),
    name: 'Angela',
    age: 27,
    email: 'angela@gmail.com'
  },
  {
    _id: ObjectId('65d988f77a382a6b45590df6'),
    name: 'Dwight',
    age: 30
  },
  {
    _id: ObjectId('65d988f77a382a6b45590df7'), name: 'Jim', age: 29 }
]

```

```

user1> db.user.findOne({ name: "Dwight" })
{ _id: ObjectId('65d988f77a382a6b45590df6'), name: 'Dwight', age: 30 }
user1> |

```

5.Update the data

```

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

```

```

user1> db.user.find()
[
  {
    _id: ObjectId('65d9889d7a382a6b45590df4'),
    name: 'Nishit',
    age: 21
  },
  {
    _id: ObjectId('65d988f77a382a6b45590df5'),
    name: 'Angela',
    age: 27,
    email: 'angela@gmail.com'
  },
  {
    _id: ObjectId('65d988f77a382a6b45590df6'),
    name: 'Dwight',
    age: 30
  },
  { _id: ObjectId('65d988f77a382a6b45590df7'), name: 'Jim', age: 29 }
]

```

6.Delete documents.

```

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

```

```

userdb> db.users.deleteMany({age:{$lt:30}})
{ acknowledged: true, deletedCount: 1 }
userdb> db.users.find()
[
  {
    _id: ObjectId('65d98099f5516ce5ba221535'),
    name: 'dwight',
    age: 30
  }
]

```

7.Remove entire collection.

```

userdb> db.users.drop()
true

```