

PRACTICAL-3

10.01.2025

CRUD USING MONGODB

```
C:\Users\Admin>mongosh
Current Mongosh Log ID: 6780ed6903b76a1f8cc92866
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
&appName=mongosh+2.1.4
Using MongoDB:      6.0.13
Using Mongosh:      2.1.4
mongosh 2.2.15 is available for download: https://www.mongodb.com/try/download/shell

For mongosh info see: https://docs.mongodb.com/mongodb-shell/
```

```
test> show dbs;
admin      40.00 KiB
config     60.00 KiB
local      80.00 KiB
pracexam   220.00 KiB
test>
```

Creating a database

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

Creating collection

```
mydb> db.createCollection("students")
{ ok: 1 }
```

Inserting records

```
mydb> db.students.insertOne({name:"Pranit",age:21,gender:"Male",email:"pranit45@gmail.com"});
{
  acknowledged: true,
  insertedId: ObjectId('6780f05e03b76a1f8cc92867')
}
```

```
mydb> db.students.insertMany([
... { name:"Tanmay",
...   age:23,
...   gender:"Male"},
... { name:"Khushi",
...   age:29,
...   gender:"Female"},
... { name:"Sneha",
...   age:25,
...   gender:"Female"}
... ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6780f1d803b76a1f8cc92868'),
    '1': ObjectId('6780f1d803b76a1f8cc92869'),
    '2': ObjectId('6780f1d803b76a1f8cc9286a')
  }
}
```

Reading operations

```
mydb> db.students.find();
[
  {
    _id: ObjectId('6780f05e03b76a1f8cc92867'),
    name: 'Pranit',
    age: 21,
    gender: 'Male',
    email: 'pranit45@gmail.com'
  },
  {
    _id: ObjectId('6780f1d803b76a1f8cc92868'),
    name: 'Tanmay',
    age: 23,
    gender: 'Male'
  },
  {
    _id: ObjectId('6780f1d803b76a1f8cc92869'),
    name: 'Khushi',
    age: 29,
    gender: 'Female'
  },
  {
    _id: ObjectId('6780f1d803b76a1f8cc9286a'),
    name: 'Sneha',
    age: 25,
    gender: 'Female'
  }
]
```

```
mydb> db.students.find({age:25},{name:1,age:1});
[
  { _id: ObjectId('6780f1d803b76a1f8cc9286a'), name: 'Sneha', age: 25 }
]
```

```
mydb> db.students.find({age:{ $gt:25}},{name:1,age:1});
[
  {
    _id: ObjectId('6780f1d803b76a1f8cc92869'),
    name: 'Khushi',
    age: 29
  }
]
```

Updating records

```
mydb> db.students.updateOne({name:"Tanmay"}, { $set: {email:"tanmay78@gmail.com"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
mydb> db.students.updateMany({age:{$lt:25}},{ $set:{status:"active"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
```

Deleting records

```
mydb> db.students.deleteOne({name:"Tanmay"});  
{ acknowledged: true, deletedCount: 1 }
```

```
mydb> db.students.deleteMany({age:{$gt:25}});  
{ acknowledged: true, deletedCount: 2 }
```

Drop collection

```
mydb> db.students.drop()  
true
```