

PRACTICAL-03

1. insertOne():

```
test> use kashinath;
switched to db kashinath
kashinath> db.createCollection('student_data')
{ ok: 1 }
kashinath> db.student_data.insertOne({'name':"kashinath"})
{
  acknowledged: true,
  insertedId: ObjectId('65d08297197cf6c18524a40b')
}
```

2. insertMany()

```
test> db.student_data.insertMany([{'name':'Kashinath',age:23},{name:'Kaushik',age:21},{name:'Harsh',age:22},{name:'Nidhi',age:21},{name:'Reshma',age:22}])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('65d9855873761c46b339615f'),
    '1': ObjectId('65d9855873761c46b3396160'),
    '2': ObjectId('65d9855873761c46b3396161'),
    '3': ObjectId('65d9855873761c46b3396162'),
    '4': ObjectId('65d9855873761c46b3396163')
  }
}
test>
```

Read Operations

1. find()

```
test> db.student_data.find()
[
  {
    _id: ObjectId('65d9855873761c46b339615f'),
    name: 'Kashinath',
    age: 23
  },
  {
    _id: ObjectId('65d9855873761c46b3396160'),
    name: 'Kaushik',
    age: 21
  },
  { _id: ObjectId('65d9855873761c46b3396161'), name: 'Harsh', age: 22 },
  { _id: ObjectId('65d9855873761c46b3396162'), name: 'Nidhi', age: 21 },
  {
    _id: ObjectId('65d9855873761c46b3396163'),
    name: 'Reshma',
    age: 22
  }
]
```

2. findOne()

```
test> db.student_data.findOne({name: 'Kashinath'})
{
  _id: ObjectId('65d9855873761c46b339615f'),
  name: 'Kashinath',
  age: 23
}
test>
```

Update Operations

1. updateOne()

```
test> db.student_data.updateOne({name: 'Harsh'}, {$set: {name: 'Tanmay'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
test> db.student_data.findOne({name: 'Tanmay'})
{ _id: ObjectId('65d9855873761c46b3396161'), name: 'Tanmay', age: 22 }
test>
```

2. updateMany

```
test> db.student_data.updateMany({age: {$lt: 22}}, {$set: {status: 'Active'}})
.. )

{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
```

Output

```
test> db.student_data.updateMany({age:{$lt:22}},{$set:{status:'Active'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
test> db.student_data.find()
[
  {
    _id: ObjectId('65d9855873761c40b339615f'),
    name: 'Kashinath',
    age: 23
  },
  {
    _id: ObjectId('65d9855873761c40b3396160'),
    name: 'Kaushik',
    age: 21,
    status: 'Active'
  },
  {
    _id: ObjectId('65d9855873761c40b3396161'),
    name: 'Tanmay',
    age: 22
  },
  {
    _id: ObjectId('65d9855873761c40b3396162'),
    name: 'Nidhi',
    age: 21,
    status: 'Active'
  },
  {
    _id: ObjectId('65d9855873761c40b3396163'),
    name: 'Reshma',
    age: 22
  }
]
test>
```

Delete Operations

1. deleteOne()

```
]
test> db.student_data.deleteOne({name:'Tanmay'})
{ acknowledged: true, deletedCount: 1 }
test> _
```

2. deleteMany()

```
test> db.student_data.deleteMany({age:{$lt:22}})
{ acknowledged: true, deletedCount: 2 }
test>
```

3. drop()

```
test> db.student_data.drop()
true
```