

MONGODB CRUD

// CREATE (INSERT)

// Insert one document

```
db.students.insertOne({  
  name: "Riya Sharma",  
  roll: 101,  
  branch: "Computer",  
  year: 2  
})
```

// Insert multiple documents

```
db.students.insertMany([  
  { name: "Amit Verma", roll: 102, branch: "IT", year: 3 },  
  { name: "Neha Patel", roll: 103, branch: "EXTC", year: 1 },  
  { name: "Kunal Joshi", roll: 104, branch: "Mechanical", year: 4 }  
])
```

// READ (FIND)

// Find all documents

```
db.students.find()
```

// Find with condition

```
db.students.find({ branch: "Computer" })
```

// Find specific fields only

```
db.students.find({ branch: "Computer" }, { name: 1, roll: 1, _id: 0 })
```

// Find one document

```
db.students.findOne({ roll: 101 })
```

// Comparison operators

```
db.students.find({ year: { $gt: 2 } }) // year > 2  
db.students.find({ year: { $lte: 2 } }) // year <= 2
```

// Logical operators

```
db.students.find({ $and: [ { branch: "IT" }, { year: 3 } ] })  
db.students.find({ $or: [ { branch: "Computer" }, { year: 1 } ] })
```

// UPDATE

// Update one document

```
db.students.updateOne(  
  { roll: 101 },  
  { $set: { year: 3, branch: "AIML" } }  
)  
  
// Update many documents  
db.students.updateMany(  
  { branch: "IT" },  
  { $set: { branch: "Information Tech" } }  
)  
  
// Replace one document completely  
db.students.replaceOne(  
  { roll: 104 },  
  { name: "Kunal Joshi", roll: 104, branch: "Mech", year: 4 }  
)
```

// DELETE

```
// Delete one document  
db.students.deleteOne({ roll: 103 })  
  
// Delete many documents  
db.students.deleteMany({ branch: "Information Tech" })
```

// EXTRA COMMANDS

```
// Count documents  
db.students.countDocuments()  
  
// Sort results  
db.students.find().sort({ year: 1 }) // ascending  
db.students.find().sort({ year: -1 }) // descending  
  
// Limit results  
db.students.find().limit(2)  
  
// Drop collection  
db.students.drop()  
  
// Drop database  
db.dropDatabase()
```