Practical-9

Current Mongosh Log ID: 68ffc62e28a8b26e7bcebea3
Connecting to:
mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=
mongosh+2.5.8
Using MongoDB: 8.2.1
Using Mongosh: 2.5.8

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

```
test> show dbs;
admin   40.00 KiB
config  36.00 KiB
local   72.00 KiB
seed    76.00 KiB
student 40.00 KiB
test> use collegeDB;
switched to db collegeDB
collegeDB> db.students.insertOne({
...   name: "Aniket Kamble",
...   age: 20,
...   course: "Information Technology",
...   year: 2,
...   marks: 76,
...   city: "Nagpur"
... })
...
{
  acknowledged: true,
  insertedId: ObjectId('68ffc7f928a8b26e7bcebea4')
}
collegeDB> db.students.insertMany([
...   {
...     name: "Sanket Patil",
...     age: 21,
...     course: "Computer Engineering",
...     year: 3,
...     marks: 85,
...     city: "Pune"
...   },
...   {
...     name: "Sneha Sharma",
...     age: 20,
...     course: "Mechanical",
...     year: 2,
...     marks: 72,
```

```
...    city: "Mumbai"
...    },
...    {
...    name: "Rohan Patil",
...    age: 22,
...    course: "Electrical",
...    year: 4,
...    marks: 65,
...    city: "Nashik"
...    },
...    {
...    name: "Priya Desai",
...    age: 19,
...    course: "Computer Engineering",
...    year: 1,
...    marks: 90,
...    city: "Pune"
...    }
... ])
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('68ffc84f28a8b26e7bcebea5'),
    '1': ObjectId('68ffc84f28a8b26e7bcebea6'),
    '2': ObjectId('68ffc84f28a8b26e7bcebea7'),
    '3': ObjectId('68ffc84f28a8b26e7bcebea8')
  }
}
collegeDB> db.students.find();
[
  {
    _id: ObjectId('68ffc7f928a8b26e7bcebea4'),
    name: 'Aniket Kamble',
    age: 20,
    course: 'Information Technology',
    year: 2,
    marks: 76,
    city: 'Nagpur'
  },
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea5'),
    name: 'Sanket Patil',
    age: 21,
    course: 'Computer Engineering',
    year: 3,
    marks: 85,
    city: 'Pune'
```

```
  },
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea6'),
    name: 'Sneha Sharma',
    age: 20,
    course: 'Mechanical',
    year: 2,
    marks: 72,
    city: 'Mumbai'
  },
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea7'),
    name: 'Rohan Patil',
    age: 22,
    course: 'Electrical',
    year: 4,
    marks: 65,
    city: 'Nashik'
  },
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea8'),
    name: 'Priya Desai',
    age: 19,
    course: 'Computer Engineering',
    year: 1,
    marks: 90,
    city: 'Pune'
  }
]
collegeDB> db.students.find({ name: "Aniket Kamble" });
[
  {
    _id: ObjectId('68ffc7f928a8b26e7bcebea4'),
    name: 'Aniket Kamble',
    age: 20,
    course: 'Information Technology',
    year: 2,
    marks: 76,
    city: 'Nagpur'
  }
]
collegeDB> db.students.find({ city: "Pune" });
[
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea5'),
    name: 'Sanket Patil',
    age: 21,
    course: 'Computer Engineering',
```

```
     year: 3,
     marks: 85,
     city: 'Pune'
   },
   {
     _id: ObjectId('68ffc84f28a8b26e7bcebea8'),
     name: 'Priya Desai',
     age: 19,
     course: 'Computer Engineering',
     year: 1,
     marks: 90,
     city: 'Pune'
   }
]
collegeDB> db.students.updateOne(
...   { name: "Aniket Kamble" },
...   { $set: { marks: 88 } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
collegeDB> db.students.updateMany(
...   { course: "Computer Engineering" },
...   { $inc: { marks: 2 } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}

collegeDB> db.students.deleteMany({ marks: { $lt: 70 } });
{ acknowledged: true, deletedCount: 1 }
collegeDB> db.students.find({
...   $or: [
...     { city: "Pune" },
...     { marks: { $gt: 80 } }
...   ]
... })
...
```

```
[
  {
    _id: ObjectId('68ffc7f928a8b26e7bcebea4'),
    name: 'Aniket Kamble',
    age: 20,
    course: 'Information Technology',
    year: 2,
    marks: 88,
    city: 'Nagpur'
  },
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea5'),
    name: 'Sanket Patil',
    age: 21,
    course: 'Computer Engineering',
    year: 3,
    marks: 87,
    city: 'Pune'
  },
  {
    _id: ObjectId('68ffc84f28a8b26e7bcebea8'),
    name: 'Priya Desai',
    age: 19,
    course: 'Computer Engineering',
    year: 1,
    marks: 92,
    city: 'Pune'
  }
]
collegeDB> db.students.find({}, { _id: 0, name: 1, marks: 1 }).sort({ marks: -1 })
[
  { name: 'Priya Desai', marks: 92 },
  { name: 'Aniket Kamble', marks: 88 },
  { name: 'Sanket Patil', marks: 87 },
  { name: 'Sneha Sharma', marks: 72 }
]
collegeDB>
```