

LAB ASSIGNMENT – 1

DATE: 05/01/2026

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RegNO: AU/2023/0010993

Section : 'E'

Q1. Create a database named **collegeDB** and switch to it.

```
test> use collegeDB
switched to db collegeDB
```

Q2. Create a collection named **students** in the collegeDB database.

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

Q3. Insert **one document** into the students collection with the following fields:

- ☐ name
- ☐ rollNo
- ☐ department
- ☐ age

```
collegeDB> db.Students.insertOne({name:"Snigdha",rollNO:075,department:"CSE AIML",age:19})
{
  acknowledged: true,
  insertedId: ObjectId('695c91ce13c8dfc7c31e2621')
}
```

Q4. Insert **four more documents** into the students collection with different values.

```
collegeDB> db.Students.insertMany([
  {name:"Ananya",rollNO:020,department:"CSE AIML",age:21},
  {name:"Ananya",rollNO:003,department:"CSE AIML",age:020},
  {name:"Ananya",rollNO:002,department:"CSE AIML",age:22},
  {name:"Ananya",rollNO:078,department:"CSE AIML",age:22}])
{
  acknowledged: true,
  insertedIds: {
    0: ObjectId('695c91ce13c8dfc7c31e2622'),
    1: ObjectId('695c91ce13c8dfc7c31e2623'),
    2: ObjectId('695c91ce13c8dfc7c31e2624'),
    3: ObjectId('695c91ce13c8dfc7c31e2625')
  }
}
```

Q5. Display **all documents** present in the students collection.

```
]
collegeDB> db.Students.find()
[
  {
    _id: ObjectId('695c91ce13c8dfc7c31e2621'),
    name: 'Snigdha',
    rollNO: 61,
    department: 'CSE AIML',
    age: 19
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2622'),
    name: 'Chayan',
    rollNO: 16,
    department: 'CSE CSF',
    age: 21
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2623'),
    name: 'Shreya',
    rollNO: 3,
    department: 'CSE CSF',
    age: 16
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2624'),
    name: 'Arindam',
    rollNO: 2,
    department: 'CSE CSF',
    age: 22
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2625'),
    name: 'Ashwani',
    rollNO: 78,
    department: 'CSE AIML',
    age: 22
  }
]
```

Q6. Display only those students who belong to the **CSE department**.

```
collegeDB> db.Students.find({department:"CSE AITL"})
[
  {
    _id: ObjectId('695c91ce13c8dfc7c31e2621'),
    name: 'Snigdha',
    rollNO: 61,
    department: 'CSE AITL',
    age: 19
  },
  {
    _id: ObjectId('695c976113c8dfc7c31e2625'),
    name: 'Ashwani',
    rollNO: 78,
    department: 'CSE AITL',
    age: 22
  }
]
```

Q7. Update the age of one student (any one) to a new value.

```
collegeDB> db.Students.updateOne({rollNO:075},{set:{age:021}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 0,
  upsertedCount: 0
}
```

Q8. Delete **one document** from the students collection using any condition

```
collegeDB> 
{ acknowledged: true, deletedCount: 1 }
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```