

## Lab-1

1. Create a database “Student” with the following attributes Rollno, Age, ContactNo, Email-Id.

```
db.createCollection("Student");
```

2. Insert appropriate values

```
db.Student.insert({RollNo:1,Age:21,Cont:9876,email:"cse@gmail.com"});
```

```
db.Student.insert({RollNo:1,Age:21,Cont:9654,email:"cse1@gmail.com"});
```

```
db.Student.insert({RollNo:10,Age:21,Cont:9654});
```

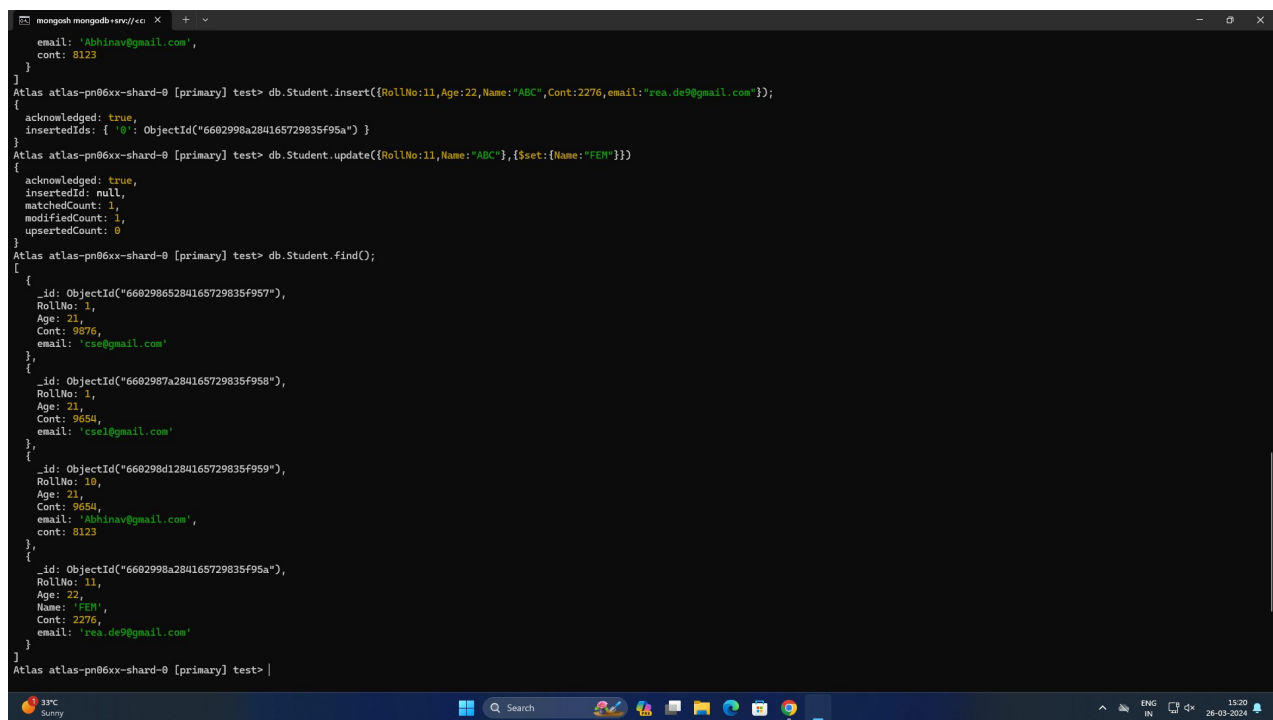
```
db.Student.insert({RollNo:11,Age:22,Name:"ABC",Cont:2276,email:"rea.de9@gmail.com"});
```

3. Write query to update Email-Id of a student with rollno 10.

```
db.Student.update({RollNo:10},{ $set: {email:"Aadi@gmail.com"} })
```

4. Replace the student name from “ABC” to “FEM” of rollno 11.

```
db.Student.update({RollNo:11,Name:"ABC"},{$set:{Name:"FEM"}})
```

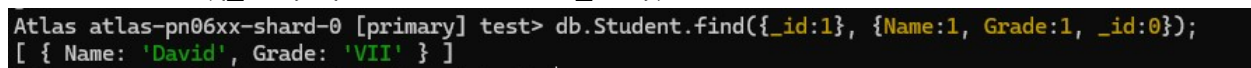


```
mongosh mongodb+srv://csc x + v
email: 'Abhinav@gmail.com',
cont: 8123
}
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.insert({RollNo:11,Age:22,Name:"ABC",Cont:2276,email:"rea.de9@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("6602988a284165729835f95a") }
}
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.update({RollNo:11,Name:"ABC"},{$set:{Name:"FEM"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.find();
[
  {
    _id: ObjectId("66029865284165729835f957"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'cse@gmail.com'
  },
  {
    _id: ObjectId("6602987a284165729835f958"),
    RollNo: 1,
    Age: 21,
    Cont: 9654,
    email: 'cse1@gmail.com'
  },
  {
    _id: ObjectId("660298d1284165729835f959"),
    RollNo: 10,
    Age: 21,
    Cont: 9654,
    email: 'Abhinav@gmail.com',
    cont: 8123
  },
  {
    _id: ObjectId("6602988a284165729835f95a"),
    RollNo: 11,
    Age: 22,
    Name: 'FEM',
    Cont: 2276,
    email: 'rea.de9@gmail.com'
  }
]
Atlas atlas-pn06xx-shard-0 [primary] test> |
```

5. Display Student Name and grade(Add if grade is not present)where the \_id column is 1.

```
db.Student.insert({_id:1,Name:"David","Grade":"VII"});
```

```
db.Student.find({_id:1}, {Name:1, Grade:1, _id:0});
```



```
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.find({_id:1}, {Name:1, Grade:1, _id:0});
[ { Name: 'David', Grade: 'VII' } ]
```

## 6. Update to add hobbies

`db.Student.update({"RollNo":10}, {$set:{"hobbies": "Reading"}});`

```
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.update({"RollNo":10}, {$set:{"hobbies": "Reading"}});
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.update({"RollNo":10}, {$set:{"hobbies": "Reading"}});
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

## 7. Find documents where hobbies is set neither to Chess nor to Skating

`db.Student.find({"hobbies": {$nin:["Chess", "Skating"]} });`

```
mongosh mongodb+srv://<< X + v
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.find({"hobbies": {$nin:["Chess", "Skating"]} });
[
  {
    _id: ObjectId("66029865284165729835f957"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'cse@gmail.com'
  },
  {
    _id: ObjectId("6602987a284165729835f958"),
    RollNo: 1,
    Age: 21,
    Cont: 9654,
    email: 'cse1@gmail.com'
  },
  {
    _id: ObjectId("660298d1284165729835f959"),
    RollNo: 10,
    Age: 21,
    Cont: 9654,
    email: 'Abhinav@gmail.com',
    cont: 8123,
    hobbies: 'Reading'
  },
  {
    _id: ObjectId("6602998a284165729835f95a"),
    RollNo: 11,
    Age: 22,
    Name: 'FEM',
    Cont: 2276,
    email: 'rea.de9@gmail.com'
  }
]
```

## 8. Find documents whose name begins with A

`db.Student.find({"Name":/^A/});`

`db.Student.find({"Name":/^F/});`

```
Atlas atlas-pn06xx-shard-0 [primary] test> db.Student.find({"Name":/^F/});
[
  {
    _id: ObjectId("6602998a284165729835f95a"),
    RollNo: 11,
    Age: 22,
    Name: 'FEM',
    Cont: 2276,
    email: 'rea.de9@gmail.com'
  }
]
```