

Assignment No. 1(b)

Title: MongoDB Queries: Design and Develop MongoDB Queries using CRUD operations.
(Use CRUD operations, SAVE method, logical operators etc.).

gescoe@gescoe-OptiPlex-3010:~\$ mongo
MongoDB shell version: 3.0.15
connecting to: test

*******Create Collection*******

```
> db.createCollection("Student1");  
{ "ok" : 1 }
```

*******Insert a document*******

```
> db.Student1.insert({RollNo:1,Name:"Mansi"});  
WriteResult({ "nInserted" : 1 })  
> db.Student1.insert({RollNo:2,Name:"Ruchita",Class:"Computer"});  
WriteResult({ "nInserted" : 1 })  
> db.Student1.insert([{RollNo:3,Name:"Kaveri"},{RollNo:4,Name:"Pooja"}]);  
BulkWriteResult({  
  "writeErrors" : [ ],  
  "writeConcernErrors" : [ ],  
  "nInserted" : 2,  
  "nUpserted" : 0,  
  "nMatched" : 0,  
  "nModified" : 0,  
  "nRemoved" : 0,  
  "upserted" : [ ]  
})
```

*******Find*******

```
> db.Student1.find();  
{ "_id" : ObjectId("6364af81b524bd71079730a7"), "RollNo" : 1, "Name" : "Mansi" }  
{ "_id" : ObjectId("6364afa8b524bd71079730a8"), "RollNo" : 2, "Name" : "Ruchita", "Class" :  
  "Computer" }  
{ "_id" : ObjectId("6364afe2b524bd71079730a9"), "RollNo" : 3, "Name" : "Kaveri" }  
{ "_id" : ObjectId("6364afe2b524bd71079730aa"), "RollNo" : 4, "Name" : "Pooja" }
```

*******Find Pretty*******

```
> db.Student1.find().pretty();  
{  
  "_id" : ObjectId("6364af81b524bd71079730a7"),  
  "RollNo" : 1,  
  "Name" : "Mansi"  
}  
{  
  "_id" : ObjectId("6364afa8b524bd71079730a8"),
```

```

    "RollNo" : 2,
    "Name" : "Ruchita",
    "Class" : "Computer"
  }
  {
    "_id" : ObjectId("6364afe2b524bd71079730a9"),
    "RollNo" : 3,
    "Name" : "Kaveri"
  }
  {
    "_id" : ObjectId("6364afe2b524bd71079730aa"),
    "RollNo" : 4,
    "Name" : "Pooja"
  }
}

```

*****Update Document*****

```

> db.Student1.update({RollNo:2},{ $set:{class:"TE",Name:"Ruchita"}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

```

```

>db.Student1.find();

```

```

[
  {
    _id: ObjectId("6370ca7482b424fd47641186"),
    RollNo: 1,
    Name: 'Mansi'
  },
  {
    _id: ObjectId("6370ca7f82b424fd47641187"),
    RollNo: 2,
    Name: 'Ruchita',
    Class: 'Computer',
    class: 'TE'
  },
  {
    _id: ObjectId("6370ca8d82b424fd47641188"),
    RollNo: 3,
    Name: 'Kaveri'
  },
  {
    _id: ObjectId("6370ca8d82b424fd47641189"),
    RollNo: 4,
    Name: 'Pooja'
  }
]

```

*******Remove Document*******

```
> db.Student1.remove({RollNo:4});
WriteResult({ "nRemoved" : 1 })

> db.Student1.find().pretty();
{
  "_id" : ObjectId("6364af81b524bd71079730a7"),
  "RollNo" : 1,
  "Name" : "Mansi"
}
{
  "_id" : ObjectId("6364afa8b524bd71079730a8"),
  "RollNo" : 2,
  "Name" : "Ruchita",
  "Class" : "Computer"
}
{
  "_id" : ObjectId("6364afe2b524bd71079730a9"),
  "RollNo" : 3,
  "Name" : "Kaveri"
}
```

*******SAVE method*******

```
> db.Student1.save({RollNo:5,Name:"Damini",Class:"Computer"});
WriteResult({
  "nMatched" : 0,
  "nUpserted" : 1,
  "nModified" : 0,
  "_id" : ObjectId("6364afe2b524bd71079730ab")
})

db.Student1.find().pretty();
{
  "_id" : ObjectId("6364af81b524bd71079730ab"),
  "RollNo" : 5,
  "Name" : "Damini",
  "Class" : "Computer"
}
{
  "_id" : ObjectId("6364af81b524bd71079730a7"),
  "RollNo" : 1,
  "Name" : "Mansi"
}
{
  "_id" : ObjectId("6364afa8b524bd71079730a8"),
  "RollNo" : 2,
  "Name" : "Ruchita",
  "Class" : "Computer"
}
```

```
      "Class" : "Computer"
    }
    {
      "_id" : ObjectId("6364afe2b524bd71079730a9"),
      "RollNo" : 3,
      "Name" : "Kaveri"
    }
  }
}
```

*******Logical operator*******

```
> db.Student1.find({$and: [{RollNo:5},{Class: "Computer"}]}).pretty()
```

```
{
  "_id" : ObjectId("6364af81b524bd71079730ab"),
  "RollNo" : 5,
  "Name" : "Damini"
  "Class" : "Computer"
}
```
