

Name : Aditya Ratnakar Kotame  
Roll No : A60  
Assignment No : 09

```
(base) student@student:~$ mongo
MongoDB shell version: 2.6.10
connecting to: test
> use KJCOEMR
switched to db KJCOEMR
> db.createCollection('Student');
{ "ok" : 1 }
> db.Student.insert({'Rno':'1','Name':'Piyush','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
> db.Student.insert({'Rno':'2','Name':'Abhi','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
> db.Student.insert({'Rno':'3','Name':'Ashley','Class':'TECOMP'});
WriteResult({ "nInserted" : 1 })
> db.Student.insert({'Rno':'4','Name':'Hitesh','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
> db.Student.insert({'Rno':'5','Name':'Pratik','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
> db.Student.insert({'Rno':'6','Name':'Pratik','Class':'TE COMP'});
WriteResult({ "nInserted" : 1 })
> db.Student.find();
{ "_id" : ObjectId("652777209a6d5d97625c32f2"), "Rno" : "1", "Name" : "Piyush", "Class" : "TE COMP" }
{ "_id" : ObjectId("65277dd69a6d5d97625c32f3"), "Rno" : "2", "Name" : "Abhi", "Class" : "TE COMP" }
{ "_id" : ObjectId("65277de99a6d5d97625c32f4"), "Rno" : "3", "Name" : "Ashley", "Class" : "TECOMP" }
{ "_id" : ObjectId("65277df89a6d5d97625c32f5"), "Rno" : "4", "Name" : "Hitesh", "Class" : "TE COMP" }
{ "_id" : ObjectId("65277e029a6d5d97625c32f6"), "Rno" : "5", "Name" : "Pratik", "Class" : "TE COMP" }
{ "_id" : ObjectId("65277e109a6d5d97625c32f7"), "Rno" : "6", "Name" : "Pratik", "Class" : "TE COMP" }
> db.Student.find().pretty();
{
    "_id" : ObjectId("652777209a6d5d97625c32f2"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277dd69a6d5d97625c32f3"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277de99a6d5d97625c32f4"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277df89a6d5d97625c32f5"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277e029a6d5d97625c32f6"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277e109a6d5d97625c32f7"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
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    "_id" : ObjectId("65277de99a6d5d97625c32f4"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277df89a6d5d97625c32f5"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277e029a6d5d97625c32f6"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277e109a6d5d97625c32f7"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> show dbs;
KJCOEMR 0.078GB
admin (empty)
local 0.078GB
test (empty)
> db.Student.update({'Name':'Hitesh'},{$set:{'Name':'Henry'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Student.find().pretty();
{
    "_id" : ObjectId("652777209a6d5d97625c32f2"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277dd69a6d5d97625c32f3"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277de99a6d5d97625c32f4"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277df89a6d5d97625c32f5"),
    "Rno" : "4",

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        "Name" : "Henry",
        "Class" : "TE COMP"
    }
}

{
    "_id" : ObjectId("65277e029a6d5d97625c32f6"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
{

    "_id" : ObjectId("65277e109a6d5d97625c32f7"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> db.Student.count();
6

```

### **Logical operations:**

```

> db.Student.find({$and:[ {"Name":"Piyush"}, {"Rno":"2"}]}).pretty();
> db.Student.find({$or:[ {"Name":"Piyush"}, {"Rno":"2"}]}).pretty();
{
    "_id" : ObjectId("65277f979a6d5d97625c32f8"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
> db.Student.find({$and:[ {"Name":"Piyush"}, {"Rno":"1"}]}).pretty();
{
    "_id" : ObjectId("65277f979a6d5d97625c32f8"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
> db.Student.find({$or:[ {"Name":"Piyush"}, {"Class":"TE COMP"}]}).pretty();
{
    "_id" : ObjectId("65277f979a6d5d97625c32f8"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),

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    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fbe9a6d5d97625c32fd"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> db.Student.find({$nor:[ {"Name":"Piyush"}, {"Class":"TECOMP"}]}).pretty();
{
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fbe9a6d5d97625c32fd"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> db.Student.find( {"Rno": { $not:{$lt:"3"} }}).pretty();
{
    "_id" : ObjectId("65277fa69a6d5d97625c32fa"),
    "Rno" : "3",
    "Name" : "Ashley",

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"Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fbe9a6d5d97625c32fd"),
    "Rno" : "6",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> db.Student.find( {"Rno": { $eq:"5"} }).pretty();
{
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> db.Student.find( {"Rno": { $ne:"5"} }).pretty();
{
    "_id" : ObjectId("65277f979a6d5d97625c32f8"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa69a6d5d97625c32fa"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
```

```
{  
    "_id" : ObjectId("65277fbe9a6d5d97625c32fd"),  
    "Rno" : "6",  
    "Name" : "Pratik",  
    "Class" : "TE COMP"  
}  
> db.Student.find( {"Rno": { $gt:"5" }}).pretty();  
{  
    "_id" : ObjectId("65277fbe9a6d5d97625c32fd"),  
    "Rno" : "6",  
    "Name" : "Pratik",  
    "Class" : "TE COMP"  
}  
}  
> db.Student.find( {"Rno": { $gte:"5" }}).pretty();  
{  
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),  
    "Rno" : "5",  
    "Name" : "Pratik",  
    "Class" : "TE COMP"  
}  
}  
{  
    "_id" : ObjectId("65277fbe9a6d5d97625c32fd"),  
    "Rno" : "6",  
    "Name" : "Pratik",  
    "Class" : "TE COMP"  
}  
}  
> db.Student.find( {"Rno": { $lt:"5" }}).pretty();  
{  
    "_id" : ObjectId("65277f979a6d5d97625c32f8"),  
    "Rno" : "1",  
    "Name" : "Piyush",  
    "Class" : "TE COMP"  
}  
}  
{  
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),  
    "Rno" : "2",  
    "Name" : "Abhi",  
    "Class" : "TE COMP"  
}  
}  
{  
    "_id" : ObjectId("65277fa69a6d5d97625c32fa"),  
    "Rno" : "3",  
    "Name" : "Ashley",  
    "Class" : "TECOMP"  
}  
}  
{  
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),  
    "Rno" : "4",  
    "Name" : "Hitesh",  
    "Class" : "TE COMP"  
}  
}  
> db.Student.find( {"Rno": { $lte:"5" }}).pretty();
```

```

{
    "_id" : ObjectId("65277f979a6d5d97625c32f8"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa69a6d5d97625c32fa"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}
> db.Student.find( {"Rno": { $lt:"5",$gt:"2"} }).pretty();
{
    "_id" : ObjectId("65277fa69a6d5d97625c32fa"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
> db.Student.find( {"Rno": { $lte:"5",$gte:"2"} }).pretty();
{
    "_id" : ObjectId("65277fa09a6d5d97625c32f9"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fa69a6d5d97625c32fa"),

```

```

    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277faf9a6d5d97625c32fb"),
    "Rno" : "4",
    "Name" : "Hitesh",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277fb79a6d5d97625c32fc"),
    "Rno" : "5",
    "Name" : "Pratik",
    "Class" : "TE COMP"
}

```

### **Delete Operation:**

```

> db.Student.remove({'ADD':'MP'});
WriteResult({ "nRemoved" : 0 })
> db.Student.remove({'Name':'Pratik'},1);
WriteResult({ "nRemoved" : 1 })
> db.Student.find().pretty();
{
    "_id" : ObjectId("652777209a6d5d97625c32f2"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277dd69a6d5d97625c32f3"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277de99a6d5d97625c32f4"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277df89a6d5d97625c32f5"),
    "Rno" : "4",
    "Name" : "Henry",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277e109a6d5d97625c32f7"),
    "Rno" : "6",
    "Name" : "Pratik",
}

```

```
"Class" : "TE COMP"
}
> db.Student.remove({ 'Name': 'Pratik' }, 1);
WriteResult({ "nRemoved" : 1 })
> db.Student.find().pretty();
{
    "_id" : ObjectId("652777209a6d5d97625c32f2"),
    "Rno" : "1",
    "Name" : "Piyush",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277dd69a6d5d97625c32f3"),
    "Rno" : "2",
    "Name" : "Abhi",
    "Class" : "TE COMP"
}
{
    "_id" : ObjectId("65277de99a6d5d97625c32f4"),
    "Rno" : "3",
    "Name" : "Ashley",
    "Class" : "TECOMP"
}
{
    "_id" : ObjectId("65277df89a6d5d97625c32f5"),
    "Rno" : "4",
    "Name" : "Henry",
    "Class" : "TE COMP"
}

> db.Student.drop();
true
> db.Student.find().pretty();
>
```