```
> show dbs
admin    0.000GB
config   0.000GB
k        0.000GB
local    0.000GB
nmit     0.000GB
> use nmit
switched to db nmit
> show collections
ISE
> db.ISE.insert({'stuid':1, 'name':'abc'})
WriteResult({ "nInserted" : 1 })
>
```

```
> db.ISE.find()
{ "_id" : ObjectId("6245b97e9cdb806fc7c60325"), "stuid" : 1, "name" : "abc" }
>
```

db.COLLECTION_NAME.insert(document)

```
> db.ISE.insert({'stuid':2,"name":"Raj",'city':'Bangalore'})
WriteResult({ "nInserted" : 1 })
>
```

```
> db.ISE.find()
{ "_id" : ObjectId("6245b97e9cdb806fc7c60325"), "stuid" : 1, "name" : "abc" }
{ "_id" : ObjectId("6245bb5a9cdb806fc7c60326"), "stuid" : 2, "name" : "Raj", "city" : "Bangalore" }
>
```

```
> db.ISE.find()
{ "_id" : ObjectId("6245b97e9cdb806fc7c60325"), "stuid" : 1, "name" : "abc" }
{ "_id" : ObjectId("6245bb5a9cdb806fc7c60326"), "stuid" : 2, "name" : "Raj", "city" : "Bangalore" }
> db.ISE.insert({'stuid':1,"name":'ramesh'})
WriteResult({ "nInserted" : 1 })
> db.ISE.find()
{ "_id" : ObjectId("6245b97e9cdb806fc7c60325"), "stuid" : 1, "name" : "abc" }
{ "_id" : ObjectId("6245bb5a9cdb806fc7c60326"), "stuid" : 2, "name" : "Raj", "city" : "Bangalore" }
{ "_id" : ObjectId("62462de32608dd2ce3ed8a97"), "stuid" : 1, "name" : "ramesh" }
>
```

The remove() Method

db.COLLECTION_NAME.remove(DELLETION_CRITTERIA)

```
> db.ISE.find()
{ "_id" : ObjectId("6245b97e9cdb806fc7c60325"), "stuid" : 1, "name" : "abc" }
{ "_id" : ObjectId("6245bb5a9cdb806fc7c60326"), "stuid" : 2, "name" : "Raj", "city" : "Bangalore" }
{ "_id" : ObjectId("62462de32608dd2ce3ed8a97"), "stuid" : 1, "name" : "ramesh" }
> db.ISE.remove({'stuid':1})
WriteResult({ "nRemoved" : 2 })
>
```

```
WriteResult({  nRemoved  : 2 })
> db.ISE.remove({'stuid':2,'name':'Raj'})
WriteResult({ "nRemoved" : 1 })
>
```

```
db.ISE.insert({_id:1,"name":'ramesh'})
iteResult({ "nInserted" : 1 })
show dbs
```

```
db.ISE.insert({_id:2,"name":'ramesh','city':'Bangalore'})
iteResult({ "nInserted" : 1 })
```

```
db.ISE.find()
"_id" : 1, "name" : "ramesh" }
"_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
```
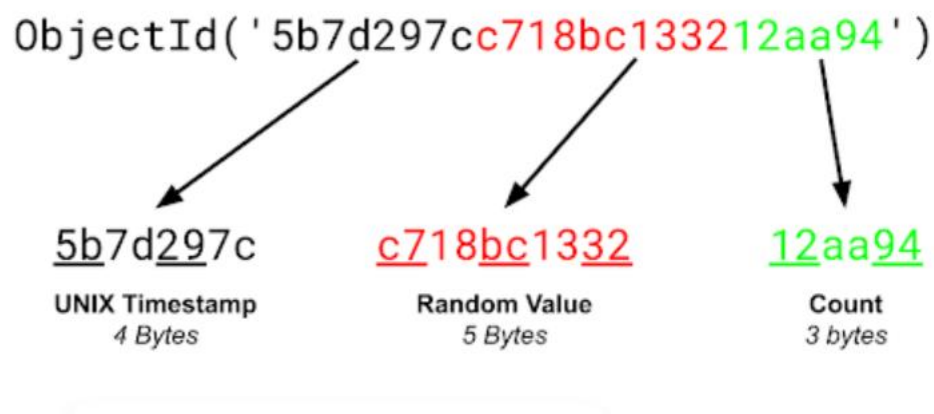
```
> db.ISE.remove({'_id':1})
WriteResult({ "nRemoved" : 1 })
```

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
```

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
> db.ISE.insert({_id:2,"name":'ramesh','city':'Bangalore'})
WriteResult({
        "nInserted" : 0,
        "writeError" : {
                "code" : 11000,
                "errmsg" : "E11000 duplicate key error collection: nmit.ISE index: _id_ dup key: { _id: 2.0 }"
        }
})
```

Remove All Documents

```
db.ISE.remove({})
```


ObjectId('5b7d297cc718bc133212aa94')

5b7d297c	c718bc1332	12aa94
UNIX Timestamp	Random Value	Count
4 Bytes	5 Bytes	3 bytes

```
db.ISE.insertMany([
  {
    _id: ObjectId("56955ca46063c5600627f393"),
    name: "John"
  },
  {
    _id: ObjectId("56955ca46063c5600627f392"),
    name: "Doe"
  }
])
```

The insertOne() method

```
>db.COLLECTION_NAME.insertOne(document)
```

insertMany() method

```
@(shell):1:20
> db.ISE.insertMany([{_id:3,'name':'Suresh','Dept':'ISE','College':'NMIT'},{_id:4,'name':'Vivek','Dept':'CSE','College':'nmit'}])
{ "acknowledged" : true, "insertedIds" : [ 3, 4 ] }
>
```

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
>
```

The find() Method

```
>db.COLLECTION_NAME.find()
```

The findOne() method

```
>db.COLLECTIONNAME.findOne()
```

The pretty() Method

```
db.COLLECTION_NAME.find().pretty()
```

Equality

```
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
> db.ISE.find({'city':'Bangalore'})
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
>
```

Less Than

 Db.ise.find(

{

<key> : { $lt :<value>}

})

```
> db.ISE.find({'_id':{$gt:2}})
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
>
```

Less Than Equals: lte

Greater Than: gt

Greater Than Equals: gte

Not Equals: ne

Values in an array

{<key> : { $in: [<value1>, <value2>,……<valueN>]}}

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
```

```
> db.ISE.find({'name': { $in: ['Vivek','Divakar']}})
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
>
```

```
> db.ISE.find({'name': { $in: ['Vivek','Diva']}})
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
>
```

Values not in an array

{<key>:{$nin:<value>}}

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
```

```
> db.ISE.find({'name': { $nin: ['Vivek']}})
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
```

AND

```
>db.mycol.find(
        {
            $and: [ {<key1>:<value1>}, { <key2>:<value2>} ]
        } )
```

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
```

```
> db.ISE.find({$and:[{'Dept':'ISE'},{'College':'NMIT'}]} )
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
```

OR

NOR

Not

MongoDB Update() Method

```
>db.COLLECTION_NAME.update(SELECTION_Condtion, UPDATED_DATA)
```

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
```

```
> db.ISE.update({ _id:4},{$set:{'Colleage':'NMIT'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

Multi Row Update

MongoDB updateMany() method

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Bangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 4, "name" : "Vivek", "Dept" : "CSE", "College" : "nmit", "Colleage" : "NMIT" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 7, "name" : "Diva", "Dept" : "ISE", "College" : "MIT" }
{ "_id" : 9, "name" : "diva", "Dept" : "CSE", "College" : "mit" }
{ "_id" : 10, "name" : "Diva", "Dept" : "ISE", "College" : "MIT" }
{ "_id" : 11, "name" : "diva", "Dept" : "CSE", "College" : "mit" }
```

```
> db.ISE.update({ 'name':'Diva'},{$set:{'Colleage':'NMIT'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

```
> db.ISE.update({ 'name':'diva'},{$set:{'Colleage':'NMIT'}},{multi:true})
WriteResult({ "nMatched" : 2, "nUpserted" : 0, "nModified" : 2 })
>
```

Remove field

```
> db.ISE.find()
{ "_id" : 2, "name" : "ramesh", "city" : "Mangalore" }
{ "_id" : 3, "name" : "Suresh", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 5, "name" : "Divakar", "Dept" : "ISE", "College" : "NMIT" }
{ "_id" : 6, "name" : "rupesh", "Dept" : "CSE", "College" : "nmit" }
{ "_id" : 10, "name" : "Diva", "Dept" : "ISE", "College" : "MIT" }
{ "_id" : 7, "name" : "Diva", "Dept" : "ISE", "College" : "MIT" }
{ "_id" : 9, "name" : "diva", "Dept" : "CSE", "College" : "mit", "Colleage" : "NMIT" }
```

```
> db.ISE.updateMany({},{$unset:{'College':""}})
{ "acknowledged" : true, "matchedCount" : 7, "modifiedCount" : 6 }
```

MongoDB Save() Method

```
>db.COLLECTION_NAME.save({_id:ObjectId(),NEW_DATA})
```