db
Show dbs
db.dropDatabase()
Use NEWDB
db.createCollection("newcol")
show collections
db.newcol.insert({"name" : "John"})
db.newcol.drop()

```
db.newcol.insert(
     [
        {
                Name: "John",
                Department: "L&D",
                by: "IIML",
                url: "mongodb.com",
                tags: ["IT", "HR", "Academic"],
                Salary: 1,00,000
        }
     ]
)
```

```
db.newcol.insertMany(
        [
                {
                        First_Name: "Rahul",
                        Last_Name: "Srivastava",
                        Date_Of_Birth: "1995-09-26",
                        e_mail: "rahul@company.com",
                        phone: "9xxxxxxxxxx"
                },
                {
                        First_Name: "Jacob",
                        Last_Name: "John",
                        Date_Of_Birth: "1990-02-16",
                        e_mail: "jacob@company.com",
                        phone: "9xxxxxxxxx"
                },
                {
                        First_Name: "Fathima",
                        Last_Name: "Sheik",
                        Date_Of_Birth: "1990-02-16",
                        e_mail: " fathima@company.com ",
                        phone: "9xxxxxxxx"
                }
        ]
)
```

```
db.newcol.insertMany(
```

```
        [
                {
                        First_Name: "Rahul",
                        Last_Name: "Srivastava",
                        Date_Of_Birth: "1995-09-26",
                        e_mail: "rahul@company.com",
                        phone: "9xxxxxxxxx",
                        Salary:60000
                },
                {
                        First_Name: "Jacob",
                        Last_Name: "John",
                        Date_Of_Birth: "1990-02-16",
                        e_mail: "jacob@company.com",
                        phone: "9xxxxxxxxx",
                        Salary:50000
                },
                {
                        First_Name: "Jacob",
                        Last_Name: "Joseph",
                        Date_Of_Birth: "1990-02-15",
                        e_mail: "jacobac@company.com",
                        phone: "9xxxxxxxxx",
                        Salary:40000
                },
                {
                        First_Name: "Fathima",
                        Last_Name: "Sheik",
                        Date_Of_Birth: "1990-02-16",
                        e_mail: " fathima@company.com ",
                        phone: "9xxxxxxxx",
                        Salary:30000
                }
        ]
)
```

db.newcol.find()

db.newcol.find({   }).pretty()

db.newcol.findOne({First_Name: "Jacob"})

db.newcol.findOne({phone: "9xxxxxxxx"})

db.newcol.find({First_Name:"Fathima"}).pretty()

db.newcol.find({Salary:{ $lt:55000} }).pretty()

db.newcol.find({Salary:{ $lt:40000} }).pretty()

db.newcol.find({Salary:{ $lt:50000} }).pretty()

db.newcol.find({Salary:{ $lte:50000} }).pretty()

db.newcol.find({Salary:{ $gte:50000} }).pretty()

db.newcol.find({Salary:{ $gt:50000} }).pretty()

db.newcol.find({Salary:{ $in:[50000,60000]} }).pretty()

db.newcol.find({Salary:{ $in:[50000,80000]} }).pretty()

db.newcol.find({Salary:{ $nin:[50000,80000]} }).pretty()

db.newcol.find({$or:[{ First_Name: "Jacob"},{Salary:30000}]}).pretty()

db.newcol.find({$and:[{},{}]}).pretty()

db.newcol.find({$and:[{ First_Name: "Jacob"},{Salary:50000}]}).pretty()

```
db.newcol.find({$and:[{ First_Name: "Jacob"},{Salary:30000}]}).pretty()
```

```
db.newcol.find({ Date_Of_Birth: "1990-02-15", $and:[{ First_Name: "Jacob"},
{ e_mail: "jacobac@company.com"}]}).pretty()
```

```
db.newcol.find({phone: "9xxxxxxxxx",  $and:[{ First_Name: "Jacob"},{ Salary:
{ $lt:50000} }]}).pretty()
```

```
db.newcol.find({phone: "9xxxxxxxxx",  $and:[{ First_Name: "Jacob"},{ Salary:
{ $lte:50000} }]}).pretty()
```

```
db.newcol.update({Date_Of_Birth: "1990-02-15"},{ $set:
{ Salary: 1000000 }})
```

```
db.newcol.remove({Date_Of_Birth: "1990-02-15"})
```

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

```
db.newcol.find().limit(2).skip(1)
```

```
db.newcol.find({Salary:{ $gt:50000} }).limit(2)
```

```
db.newcol.find({Salary:{ $gt:50000} }).limit(2).skip(1)
```

```
db.newcol.find().sort({First_Name:1})
```

```
db.newcol.aggregate(
    [
        {
            $group:
                {
                    "_id":" First_Name ", AG:{$avg: "$Salary" }
                }
        }
    ]
)
```

```
db.newcol.aggregate(
    [
        {
            $group:
                {
                    "_id":" First_Name ", AG:{$sum: "$Salary" }
                }
        }
    ]
)
```

```
db.teams.insertOne({team: "Mavs", points: 30, rebounds: 8})
db.teams.insertOne({team: "Mavs", points: 30, rebounds: 12})
db.teams.insertOne({team: "Spurs", points: 20, rebounds: 7})
db.teams.insertOne({team: "Spurs", points: 25, rebounds: 5})
db.teams.insertOne({team: "Spurs", points: 25, rebounds: 9})
db.teams.aggregate([{$group: {_id:null, avg_val:{$avg:"$points"}}}])
db.teams.aggregate([{$group: {_id:"$team", avg_val:
{$avg:"$points"}}}])
```

```
db.teams.insertOne({team: "Mavs", position: "Guard", points: 31})
db.teams.insertOne({team: "Spurs", position: "Guard", points: 22})
db.teams.insertOne({team: "Rockets", position: "Center", points: 19})
db.teams.insertOne({team: "Warriors", position: "Forward", points:
26})
db.teams.insertOne({team: "Cavs", position: "Guard", points: 33})
db.teams.aggregate([
    {$group : {_id:"$position", count:{$sum:1}}}
])
```

```
db.teams.aggregate([
    {$group : {_id:"$position", count:{$sum:1}}},
```

```
    {$sort: {count:-1}}
])
db.teams.insertOne({team: "Mavs", position: "Guard", points: 31})
db.teams.insertOne({team: "Mavs", position: "Guard", points: 22})
db.teams.insertOne({team: "Rockets", position: "Center", points: 19})
db.teams.insertOne({team: "Rockets", position: "Forward", points: 26})
db.teams.insertOne({team: "Cavs", position: "Guard", points: 33})
db.teams.distinct('team')
db.newsales.insertMany(
        [
{ "_id" : 1, "item" : "abc1", description: "product 1", qty: 300 },
{ "_id" : 2, "item" : "abc2", description: "product 2", qty: 200 },
{ "_id" : 3, "item" : "xyz1", description: "product 3", qty: 250 },
{ "_id" : 4, "item" : "VWZ1", description: "product 4", qty: 300 },
{ "_id" : 5, "item" : "VWZ2", description: "product 5", qty: 180 }


]
)
db.newsales.aggregate(
    [
        {
          $project:
            {
              item: 1,
              qty: 1,
              cmpTo250: { $cmp: [ "$qty", 250 ] },
              _id: 0
            }
        }
    ]
)
db.products.insertMany([
   { "_id" : 1, "item" : "apple", "type" : "honey crisp", "price" :
NumberDecimal("1.99") },
   { "_id" : 2, "item" : "apple", "type" : "fuji", "price" :
NumberDecimal("1.99") },
   { "_id" : 3, "item" : "apple", "type" : "jonagold", "price" :
NumberDecimal("1.29") },
   { "_id" : 4, "item" : "apple", "type" : "jonathan", "price" :
NumberDecimal("1.29") },
   { "_id" : 5, "item" : "apple", "type" : "mcintosh", "price" :
NumberDecimal("1.29") },
   { "_id" : 6, "item" : "apple", "type" : "cortland", "price" :
NumberDecimal("1.29") },
   { "_id" : 7, "item" : "orange", "type" : "cara cara", "price" :
NumberDecimal("2.99") },
   { "_id" : 9, "item" : "orange", "type" : "satsuma", "price" :
NumberDecimal("1.99") },
   { "_id" : 8, "item" : "orange", "type" : "valencia", "price" :
NumberDecimal("0.99") },
   { "_id" : 10, "item" : "orange", "type" : "navel", "price" :
NumberDecimal("1.39") }
])

db.products.find().min( { price:
NumberDecimal("1.39") } ).max( { price:
```

```
NumberDecimal("1.99") } ).hint( { price: 1 } )
```