```
test> show dbs;
admin    40.00 KiB
config  108.00 KiB
db1     40.00 KiB
local   40.00 KiB
test> use db1;
switched to db db1
db1> show collections;
students
db1> db.students.updateOne({'name':'Alan'},{$set:{'email':'alan@gmail.com'}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
db1> db.students.insertMany([{'name':'Amal','email':'amal@gmail.com'},{'name':'sheril','email':'sheril@gmail.com'}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('670fb743a2075e3b1f86b01d'),
    '1': ObjectId('670fb743a2075e3b1f86b01e')
  }
}
db1> db.students.find();
[
```

```
  {
    _id: ObjectId('670fb4ff014cdc5fc986b01d'),
    name: 'Alan',
    email: 'alan@gmail.com'
  },
  {
    _id: ObjectId('670fb743a2075e3b1f86b01d'),
    name: 'Amal',
    email: 'amal@gmail.com'
  },
  {
    _id: ObjectId('670fb743a2075e3b1f86b01e'),
    name: 'sheril',
    email: 'sheril@gmail.com'
  }
]
db1> db.students.find().pretty();
[
  {
    _id: ObjectId('670fb4ff014cdc5fc986b01d'),
    name: 'Alan',
    email: 'alan@gmail.com'
  },
  {
    _id: ObjectId('670fb743a2075e3b1f86b01d'),
    name: 'Amal',
    email: 'amal@gmail.com'
  },
  {
    _id: ObjectId('670fb743a2075e3b1f86b01e'),
    name: 'sheril',
```

```
    email: 'sheril@gmail.com'
  }
]
db1> show dbs;
admin    40.00 KiB
config  108.00 KiB
db1      72.00 KiB
local    40.00 KiB
db1> db.createCollection('teachers');
{ ok: 1 }
db1> show collections;
students
teachers
db1> db.teachers.insertOne({'name':'Sunil','age':20,'dept':'CSE'});
{
  acknowledged: true,
  insertedId: ObjectId('670fb8c1a2075e3b1f86b01f')
}
db1> db.teachers.find();
[
  {
    _id: ObjectId('670fb8c1a2075e3b1f86b01f'),
    name: 'Sunil',
    age: 20,
    dept: 'CSE'
  }
]
db1> db.teachers.insertOne({'name':'Rahul','age':30,'dept':'CSE'});
{
  acknowledged: true,
```

```
  insertedId: ObjectId('670fb8e0a2075e3b1f86b020')

}

db1> db.teachers.find();

[

 {

  _id: ObjectId('670fb8c1a2075e3b1f86b01f'),

  name: 'Sunil',

  age: 20,

  dept: 'CSE'

 },

 {

  _id: ObjectId('670fb8e0a2075e3b1f86b020'),

  name: 'Rahul',

  age: 30,

  dept: 'CSE'

 }

]

db1> db.teachers.find({'age':30});

[

 {

  _id: ObjectId('670fb8e0a2075e3b1f86b020'),

  name: 'Rahul',

  age: 30,

  dept: 'CSE'

 }

]

db1> exit


C:\Users\alanm>mongosh

Current Mongosh Log ID: 670fb93590ab08d9c686b01c
```

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.2

Using MongoDB: 8.0.1

Using Mongosh: 2.3.2

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

   The server generated these startup warnings when booting

   2024-10-16T13:59:09.954+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

------

```
test> show dbs;
admin   40.00 KiB
config  108.00 KiB
db1     144.00 KiB
local   40.00 KiB
test> show dbs;
admin   40.00 KiB
config  108.00 KiB
db1     144.00 KiB
local   40.00 KiB
test> use db1;
switched to db db1
db1> show collections;
students
teachers
db1> db.dropDatabase();
{ ok: 1, dropped: 'db1' }
db1> show databases;
```

```
admin    40.00 KiB
config  108.00 KiB
local    40.00 KiB
db1> db.teachers.find();
[
 {
   _id: ObjectId('67108c2fbe99b5ad2c86b01d'),
   name: 'sunil',
   age: '45',
   dept: 'CSE'
 },
 {
   _id: ObjectId('67108c4abe99b5ad2c86b01e'),
   name: 'rahul',
   age: '45',
   dept: 'CSE'
 },
 {
   _id: ObjectId('67108c56be99b5ad2c86b01f'),
   name: 'rohit',
   age: '40',
   dept: 'CSE'
 }
]
db.teachers.find({'age':'45'});
[
 {
   _id: ObjectId('67108c2fbe99b5ad2c86b01d'),
   name: 'sunil',
   age: '45',
   dept: 'CSE'
```

```
  },
  {
    _id: ObjectId('67108c4abe99b5ad2c86b01e'),
    name: 'rahul',
    age: '45',
    dept: 'CSE'
  }
]
db1> db.teachers.findOne({'age':'45'});
{
  _id: ObjectId('67108c2fbe99b5ad2c86b01d'),
  name: 'sunil',
  age: '45',
  dept: 'CSE'
}
db.teachers.insertMany([{'name':'sunil','age':45,'salary':35000,'dept':'CSE'},{'name':'rahul','age':40,'salary':36000,'dept':'CSE'},{'name':'Nimisha','age':35,'salary':25000,'dept':'CSE'},{'name':'rohit','age':35,'salary':30000,'dept':'EEE'}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6710bd85b6945f20b486b01d'),
    '1': ObjectId('6710bd85b6945f20b486b01e'),
    '2': ObjectId('6710bd85b6945f20b486b01f'),
    '3': ObjectId('6710bd85b6945f20b486b020')
  }
}
db1> db.teachers.find();
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
```

```
    age: 45,

    salary: 35000,

    dept: 'CSE'

  },

  {

    _id: ObjectId('6710bd85b6945f20b486b01e'),

    name: 'rahul',

    age: 40,

    salary: 36000,

    dept: 'CSE'

  },

  {

    _id: ObjectId('6710bd85b6945f20b486b01f'),

    name: 'Nimisha',

    age: 35,

    salary: 25000,

    dept: 'CSE'

  },

  {

    _id: ObjectId('6710bd85b6945f20b486b020'),

    name: 'rohit',

    age: 35,

    salary: 30000,

    dept: 'EEE'

  }

]
db1> db.teachers.find({age:{$gt:30000}});


db1> db.teachers.find({'age':{$gt:30000}});


db1> db.teachers.find({'age':{$gte:30000}});
```

```
db1> db.teachers.find({salary:{$gt:30000}});
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
    age: 45,
    salary: 35000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01e'),
    name: 'rahul',
    age: 40,
    salary: 36000,
    dept: 'CSE'
  }
]
db1> db.teachers.find({salary:{$gt:30000}}).count();
2
db1> db.teachers.find({$and:[{salary:{$gt:30000}},{age:{$gt:40}}]});
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
    age: 45,
    salary: 35000,
    dept: 'CSE'
  }
]
db1> db.teachers.find({$or:[{salary:{$gt:30000}},{age:{$gt:40}}]});
```

```
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
    age: 45,
    salary: 35000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01e'),
    name: 'rahul',
    age: 40,
    salary: 36000,
    dept: 'CSE'
  }
]
db1> db.teachers.find({$nor:[{salary:{$gt:30000}},{age:{$gt:40}}]});
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01f'),
    name: 'Nimisha',
    age: 35,
    salary: 25000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b020'),
    name: 'rohit',
    age: 35,
    salary: 30000,
    dept: 'EEE'
```

```
    }
]
db1> db.teachers.find();
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
    age: 45,
    salary: 35000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01e'),
    name: 'rahul',
    age: 40,
    salary: 36000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01f'),
    name: 'Nimisha',
    age: 35,
    salary: 25000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b020'),
    name: 'rohit',
    age: 35,
    salary: 30000,
    dept: 'EEE'
```

```
  }
]
db1> db.teachers.updateOne({name:'sunil'},{$set:{salary: 40000}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
db1> db.teachers.find();
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
    age: 45,
    salary: 40000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01e'),
    name: 'rahul',
    age: 40,
    salary: 36000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01f'),
    name: 'Nimisha',
    age: 35,
    salary: 25000,
```

```
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b020'),
    name: 'rohit',
    age: 35,
    salary: 30000,
    dept: 'EEE'
  }
]
db1> db.teachers.updateMany({salary: {$lt: 35000}},{$set:{salary:34000}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
db1> db.teachers.find();
[
  {
    _id: ObjectId('6710bd85b6945f20b486b01d'),
    name: 'sunil',
    age: 45,
    salary: 40000,
    dept: 'CSE'
  },
  {
    _id: ObjectId('6710bd85b6945f20b486b01e'),
    name: 'rahul',
    age: 40,
```

```
      salary: 36000,

      dept: 'CSE'

    },

    {

      _id: ObjectId('6710bd85b6945f20b486b01f'),

      name: 'Nimisha',

      age: 35,

      salary: 34000,

      dept: 'CSE'

    },

    {

      _id: ObjectId('6710bd85b6945f20b486b020'),

      name: 'rohit',

      age: 35,

      salary: 34000,

      dept: 'EEE'

    }

]


db1> db.teachers.deleteMany({salary: 34000});

{ acknowledged: true, deletedCount: 2 }

db1> db.teachers.find();

[

    {

      _id: ObjectId('6710bd85b6945f20b486b01d'),

      name: 'sunil',

      age: 45,

      salary: 40000,

      dept: 'CSE'

    },

    {
```

```
    _id: ObjectId('6710bd85b6945f20b486b01e'),

    name: 'rahul',

    age: 40,

    salary: 36000,

    dept: 'CSE'

  }

]
```