```
iti> use ems
switched to db ems
ems> db.createCollection("faculty");
{ ok: 1 }
ems> _
```

```
ems> db.faculty.insertMany([{ "name":"Krish", "age":35,"gender":"M","exp":10,subjects:["DS","C","OS"],"t
ype":"Full Time","qualification":"M.Tech" },
fication":"Ph.D"},
... { "name":"Anush", "age":32,"gender":"F","exp":8,subjects:["C","CPP"],"type":"Part Time","qualificati
... { "name":"Mani", "age":38,"gender":"F","exp":10,subjects:["JAVA","DBMS","OS"],"type":"Part Time", "q
ualification":"Ph.D"},
... { "name":"Nagesh", "age":39,"gender":"M","exp":11,subjects:["JAVA","DBMS","NETWORKING"],"type":"Full
Time", "qualification": "Ph.D"},
... { "name":"Latha", "age":40,"gender":"F","exp":13,subjects:["MATHS"],"type":"Full Time", "qualificati
on":"Ph.D"}])
  acknowledged: true,
  insertedIds: {
     '0': ObjectId("63f6b3ca4b1f9b70acdb0317"),
    '1': ObjectId("63f6b3ca4b1f9b70acdb0318"),
    '2': ObjectId("63f6b3ca4b1f9b70acdb0319"),
    '3': ObjectId("63f6b3ca4b1f9b70acdb031a"),
'4': ObjectId("63f6b3ca4b1f9b70acdb031b"),
'5': ObjectId("63f6b3ca4b1f9b70acdb031c"),
'6': ObjectId("63f6b3ca4b1f9b70acdb031d"),
    '7': ObjectId("63f6b3ca4b1f9b70acdb031e"),
    '8': ObjectId("63f6b3ca4b1f9b70acdb031f"),
     '9': ObjectId("63f6b3ca4b1f9b70acdb0320")
  }
```

```
ems> db.faculty.find()
   id: ObjectId("63f6b3ca4b1f9b70acdb0317"),
   name: 'Krish',
   age: 35,
   gender: 'M',
   exp: 10,
   subjects: [ 'DS', 'C', 'OS' ],
   type: 'Full Time',
   qualification: 'M. Tech'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb0318"),
   name: 'Manoj',
   age: 38,
   gender: 'M',
   exp: 12,
   subjects: [ 'JAVA', 'DBMS' ],
   type: 'Full Time',
   qualification: 'Ph.D'
   _id: ObjectId("63f6b3ca4b1f9b70acdb0319"),
   name: 'Anush',
   age: 32,
   gender: 'F',
   exp: 8,
   subjects: [ 'C', 'CPP' ],
   type: 'Part Time',
   qualification: 'M.Tech'
 },
   id: ObjectId("63f6b3ca4b1f9b70acdb031a"),
   name: 'Suresh',
   age: 40,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
   id: ObjectId("63f6b3ca4b1f9b70acdb031b"),
   name: 'Rajesh',
   age: 35,
   gender: 'M',
   exp: 7,
```

```
ems> db.faculty.find().count();
10
ems>
```

```
ems> db.faculty.find({qualification:"Ph.D"})
   _id: ObjectId("63f6b3ca4b1f9b70acdb0318"),
   name: 'Manoj',
   age: 38,
   gender: 'M',
   exp: 12,
   subjects: [ 'JAVA', 'DBMS' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb031a"),
   name: 'Suresh',
   age: 40,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
   _id: ObjectId("63f6b3ca4b1f9b70acdb031c"),
   name: 'Mani',
   age: 38,
   gender: 'F',
   exp: 10,
   subjects: [ 'JAVA', 'DBMS', 'OS' ],
   type: 'Part Time',
   qualification: 'Ph.D'
 },
   id: ObjectId("63f6b3ca4b1f9b70acdb031e"),
   name: 'Nagesh',
   age: 39,
   gender: 'M',
   exp: 11,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
   id: ObjectId("63f6b3ca4b1f9b70acdb031f"),
   name: 'Nagesh',
   age: 35,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', '.Net', 'NETWORKING' ],
```

```
_id: ObjectId("63f6b3ca4b1f9b70acdb031f"),
 name: 'Nagesh',
 age: 35,
 gender: 'M',
 exp: 9,
  subjects: [ 'JAVA', '.Net', 'NETWORKING' ],
 type: 'Full Time',
 qualification: 'Ph.D'
},
 _id: ObjectId("63f6b3ca4b1f9b70acdb0320"),
 name: 'Latha',
 age: 40,
 gender: 'F',
 exp: 13,
 subjects: [ 'MATHS' ],
 type: 'Full Time',
 qualification: 'Ph.D'
```

```
ems> db.faculty.find({exp:{$gt:8,$lt:12}});
   _id: ObjectId("63f6b3ca4b1f9b70acdb0317"),
   name: 'Krish',
   age: 35,
   gender: 'M',
   exp: 10,
   subjects: [ 'DS', 'C', 'OS' ],
   type: 'Full Time',
   qualification: 'M.Tech'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb031a"),
   name: 'Suresh',
   age: 40,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
 {
   _id: ObjectId("63f6b3ca4b1f9b70acdb031c"),
   name: 'Mani',
   age: 38,
   gender: 'F',
   exp: 10,
   subjects: [ 'JAVA', 'DBMS', 'OS' ],
   type: 'Part Time',
   qualification: 'Ph.D'
 },
 {
   _id: ObjectId("63f6b3ca4b1f9b70acdb031e"),
   name: 'Nagesh',
   age: 39,
   gender: 'M',
   exp: 11,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
```

```
__id: ObjectId("63f6b3ca4b1f9b70acdb031f"),
    name: 'Nagesh',
    age: 35,
    gender: 'M',
    exp: 9,
    subjects: [ 'JAVA', '.Net', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
}
```

```
ems> db.faculty.find({subjects:{$in:["MATHS","NETWORKING"]}});
   id: ObjectId("63f6b3ca4b1f9b70acdb031a"),
   name: 'Suresh',
   age: 40,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
    _id: ObjectId("63f6b3ca4b1f9b70acdb031d"),
   name: 'Sivani',
   age: 32,
   gender: 'F',
   exp: 8,
   subjects: [ 'C', 'CPP', 'MATHS' ],
   type: 'Part Time',
   qualification: 'M. Tech'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb031e"),
   name: 'Nagesh',
   age: 39,
   gender: 'M',
   exp: 11,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb031f"),
   name: 'Nagesh',
   age: 35,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', '.Net', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb0320"),
   name: 'Latha',
   age: 40,
   gender: 'F',
   exp: 13,
   subjects: [ 'MATHS' ],
```

```
ems> db.faculty.find({ $or: [{ subjects: "JAVA" }, { type: "Part Time" }] })
   _id: ObjectId("63f6b3ca4b1f9b70acdb0318"),
   name: 'Manoj',
   age: 38,
   gender: 'M',
   exp: 12,
   subjects: [ 'JAVA', 'DBMS' ],
   type: 'Full Time',
   qualification: 'Ph.D'
   _id: ObjectId("63f6b3ca4b1f9b70acdb0319"),
   name: 'Anush',
   age: 32,
   gender: 'F',
   exp: 8,
   subjects: [ 'C', 'CPP' ],
   type: 'Part Time',
   qualification: 'M.Tech'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb031a"),
   name: 'Suresh',
   age: 40,
   gender: 'M',
   exp: 9,
   subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
   _id: ObjectId("63f6b3ca4b1f9b70acdb031c"),
   name: 'Mani',
   age: 38,
   gender: 'F',
   exp: 10,
   subjects: [ 'JAVA', 'DBMS', 'OS' ],
   type: 'Part Time',
   qualification: 'Ph.D'
```

```
_id: ObjectId("63f6b3ca4b1f9b70acdb031d"),
  name: 'Sivani',
  age: 32,
  gender: 'F',
  exp: 8,
  subjects: [ 'C', 'CPP', 'MATHS' ],
  type: 'Part Time',
  qualification: 'M. Tech'
},
 _id: ObjectId("63f6b3ca4b1f9b70acdb031e"),
  name: 'Nagesh',
  age: 39,
 gender: 'M',
  exp: 11,
  subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
  type: 'Full Time',
  qualification: 'Ph.D'
},
{
  _id: ObjectId("63f6b3ca4b1f9b70acdb031f"),
  name: 'Nagesh',
  age: 35,
  gender: 'M',
  exp: 9,
  subjects: [ 'JAVA', '.Net', 'NETWORKING' ],
 type: 'Full Time',
  qualification: 'Ph.D'
```

```
ems> db.faculty.insertOne({ name: "suresh Babu", age: 55, gender: "M", exp: 25, subjects: ["MATHS", "DE"
], type: "Full Time", qualification: "Ph.D" });
{
    acknowledged: true,
    insertedId: ObjectId("63f6b6ec4b1f9b70acdb0322")
}
```

```
ems> db.faculty.updateMany({},{ $inc:{ age:1,exp:1 }})
{To exit, press Ctrl+C again or Ctrl+D or type .exit)
  acknowledged: true,
  insertedId: null,
  matchedCount: 12,
  modifiedCount: 12,
  upsertedCount: 0
ms> db.faculty.updateMany({ name: "Sivani" }, { $set: { qualification:
 acknowledged: true,
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,,
 modifiedCount: 0,
 upsertedCount: 0
ems> db.faculty.updateMany({subjects:"MATHS",},{$push:{"subjects":"PSK"}});
  acknowledged: true,
  insertedId: null,
 matchedCount: 4,
 modifiedCount: 4,
 upsertedCount: 0
{ acknowledged: true, deletedCount: 2 }
ems> db.faculty.find({},{ id:0,name:1,qualification:1})
[To exit, press Ctrl+C again or Ctrl+D or type .exit)
  { name: 'Krish', qualification: 'M.Tech' },
  { name: 'Manoj', qualification: 'Ph.D' },
  { name: 'Anush', qualification: 'M.Tech' },
  { name: 'Suresh', qualification: 'Ph.D' },
  { name: 'Rajesh', qualification: 'M.Tech' },
  { name: 'Mani', qualification: 'Ph.D' },
  { name: 'Sivani', qualification: 'Ph.D' },
  { name: 'Nagesh', qualification: 'Ph.D' },
  { name: 'Nagesh', qualification: 'Ph.D' },
  { name: 'Latha', qualification: 'Ph.D' }
```

```
|@%.| mongosn mongoab;// 127.0.0.1;27017/?airectConnection=true&se
ems> db.faculty.find().sort({age:-1}).limit(5);
    _id: ObjectId("63f6b3ca4b1f9b70acdb0320"),
   name: 'Latha',
   age: 42,
   gender: 'F',
    exp: 15,
    subjects: [ 'MATHS', 'PSK' ],
    type: 'Full Time',
   qualification: 'Ph.D'
 },
    _id: ObjectId("63f6b3ca4b1f9b70acdb031a"),
   name: 'Suresh',
   age: 42,
   gender: 'M',
    exp: 11,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
    _id: ObjectId("63f6b3ca4b1f9b70acdb031e"),
   name: 'Nagesh',
   age: 41,
   gender: 'M',
   exp: 13,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
   type: 'Full Time',
   qualification: 'Ph.D'
 },
    _id: ObjectId("63f6b3ca4b1f9b70acdb031c"),
   name: 'Mani',
   age: 40,
   gender: 'F',
    exp: 12,
    subjects: [ 'JAVA', 'DBMS', 'OS' ],
   type: 'Part Time',
   qualification: 'Ph.D'
    _id: ObjectId("63f6b3ca4b1f9b70acdb0318"),
   name: 'Manoj',
   age: 40,
   gender: 'M',
    exp: 14,
    subjects: [ 'JAVA', 'DBMS' ],
```