

SESSION-1

Microsoft Windows [Version 10.0.22631.3085]

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C:\Users\karthik>mongosh

Current Mongosh Log ID: 65c46c9304b9ade2c90cdb6c

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.3

Using MongoDB: 7.0.5

Using Mongosh: 2.1.3

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

The server generated these startup warnings when booting

2024-02-08T11:22:37.753+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 84.00 KiB

local 72.00 KiB

test> use facultydb

switched to db facultydb

facultydb> show dbs

admin 40.00 KiB

config 84.00 KiB

local 72.00 KiB

facultydb> db.createCollection

db.createCollection

facultydb> db.createCollection("faculty")

{ ok: 1 }

facultydb> show dbs

admin 40.00 KiB

config 72.00 KiB

facultydb 8.00 KiB

local 72.00 KiB

facultydb> show collections

faculty

facultydb> db

facultydb

facultydb> db.faculty.drop()

true

facultydb> show collections

```
facultydb> db.dropDatabase()
```

```
{ ok: 1, dropped: 'facultydb' }
```

```
facultydb> show dbs
```

```
admin 40.00 KiB
```

```
config 96.00 KiB
```

```
local 72.00 KiB
```

```
facultydb> use admin
```

```
switched to db admin
```

```
admin> db
```

```
admin
```

```
admin> use facultydb
```

```
switched to db facultydb
```

```
facultydb> db.create
```

```
db.createUser      db.createCollection  db.createEncryptedCollection  db.createView  
db.createRole
```

```
facultydb> db.createCollection("faculty")
```

```
{ ok: 1 }
```

```
facultydb> show collections
```

```
faculty
```

```
facultydb> //insert document
```

```
facultydb> db.faculty.insert({fid:4654,fname:"SURYA"})
```

```
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
```

```
{
```

```
acknowledged: true,

insertedIds: { '0': ObjectId('65c4711504b9ade2c90cdb6d') }

}

facultydb> db.faculty.find().pretty()

[

  {

    _id: ObjectId('65c4711504b9ade2c90cdb6d'),

    fid: 4654,

    fname: 'SURYA'

  }

]

facultydb> db.faculty.find()

[

  {

    _id: ObjectId('65c4711504b9ade2c90cdb6d'),

    fid: 4654,

    fname: 'SURYA'

  }

]

facultydb> db.faculty.insertOne({fid:4414,fname:"HARI"})

{

  acknowledged: true,

  insertedId: ObjectId('65c4729404b9ade2c90cdb6e')

}

facultydb> db.faculty.insertMany([{fid:5000},{fid:1234,fname:"KLU"}])
```

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('65c4734304b9ade2c90cdb6f'),
    '1': ObjectId('65c4734304b9ade2c90cdb70')
  }
}
```

```
}
```

```
facultydb> db.faculty.find()
```

```
[
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA'
  },
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI'
  },
  { _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 },
  {
    _id: ObjectId('65c4734304b9ade2c90cdb70'),
    fid: 1234,
    fname: 'KLU'
  }
]
```

```
]
```

```
facultydb> db.faculty.find().size()
```

```
4
```

```
facultydb> db.faculty.countDocuments()
```

```
4
```

```
facultydb> db.faculty.find().limit(2)
```

```
[
```

```
{
```

```
  _id: ObjectId('65c4711504b9ade2c90cdb6d'),
```

```
  fid: 4654,
```

```
  fname: 'SURYA'
```

```
},
```

```
{
```

```
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
```

```
  fid: 4414,
```

```
  fname: 'HARI'
```

```
}
```

```
]
```

```
facultydb> db.faculty.find().sort({fid:1}) //asc
```

```
[
```

```
{
```

```
  _id: ObjectId('65c4734304b9ade2c90cdb70'),
```

```
  fid: 1234,
```

```
  fname: 'KLU'
```

```
},
```

```
{
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
  fid: 4414,
  fname: 'HARI'
},
{
  _id: ObjectId('65c4711504b9ade2c90cdb6d'),
  fid: 4654,
  fname: 'SURYA'
},
{ _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 }
]
```

```
facultydb> db.faculty.find().sort({fid:-1}) //dsc
```

```
[
  { _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 },
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA'
  },
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI'
  },
]
```

```
{
  _id: ObjectId('65c4734304b9ade2c90cdb70'),
  fid: 1234,
  fname: 'KLU'
}
]

facultydb> db.faculty.find().sort()

[
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA'
  },
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI'
  },
  { _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 },
  {
    _id: ObjectId('65c4734304b9ade2c90cdb70'),
    fid: 1234,
    fname: 'KLU'
  }
]
```



```
facultydb> db.faculty.find({fid:1234})
```

```
[
  {
    _id: ObjectId('65c4734304b9ade2c90cdb70'),
    fid: 1234,
    fname: 'KLU'
  }
]
```

```
facultydb> db.faculty.updateOne({fid:1234},{ $set:{fname:"KLEF"}})
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
facultydb> db.faculty.find().limit(1)
```

```
[
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA'
  }
]
```

```
facultydb> db.faculty.find().limit(2)
```

```
[
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA'
  },
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI'
  }
]
```

```
facultydb> db.faculty.find().limit(3)
```

```
[
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA'
  },
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI'
  },
  { _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 }
```

```
]
```

```
facultydb> db.faculty.find().limit(4)
```

```
[
```

```
{
```

```
  _id: ObjectId('65c4711504b9ade2c90cdb6d'),
```

```
  fid: 4654,
```

```
  fname: 'SURYA'
```

```
},
```

```
{
```

```
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
```

```
  fid: 4414,
```

```
  fname: 'HARI'
```

```
},
```

```
{ _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 },
```

```
{
```

```
  _id: ObjectId('65c4734304b9ade2c90cdb70'),
```

```
  fid: 1234,
```

```
  fname: 'KLEF'
```

```
}
```

```
]
```

```
facultydb> db.faculty.find({fid:5000})
```

```
[ { _id: ObjectId('65c4734304b9ade2c90cdb6f'), fid: 5000 } ]
```

```
facultydb> db.faculty.updateOne({fid:5000},{ $set:{fname:"Harshitha",dept:"CSE"}})
```

```
{
```

```
  acknowledged: true,
```

```
insertedId: null,
matchedCount: 1,
modifiedCount: 1,
upsertedCount: 0
}
facultydb> db.faculty.find({fid:5000})
[
  {
    _id: ObjectId('65c4734304b9ade2c90cdb6f'),
    fid: 5000,
    dept: 'CSE',
    fname: 'Harshitha'
  }
]
facultydb> db.faculty.countDocuments()
4
facultydb> db.faculty.insertOne({fid:1764,fname:"Sanjana",dept:"CSE"})
{
  acknowledged: true,
  insertedId: ObjectId('65c47b1c04b9ade2c90cdb71')
}
facultydb> db.faculty.findOne({fid:1234})
{ _id: ObjectId('65c4734304b9ade2c90cdb70'), fid: 1234, fname: 'KLEF' }
facultydb> db.faculty.findOne({fid:1234,fname:"KLEF"})
{ _id: ObjectId('65c4734304b9ade2c90cdb70'), fid: 1234, fname: 'KLEF' }
```

```
facultydb> db.faculty.findOne({fid:1234,fname:"VIT"})
```

```
null
```

```
facultydb> db.faculty.findOne({dept:"CSE"})
```

```
{  
  _id: ObjectId('65c4734304b9ade2c90cdb6f'),  
  fid: 5000,  
  dept: 'CSE',  
  fname: 'Harshitha'  
}
```

```
facultydb> db.faculty.find({dept:"CSE"})
```

```
[  
  {  
    _id: ObjectId('65c4734304b9ade2c90cdb6f'),  
    fid: 5000,  
    dept: 'CSE',  
    fname: 'Harshitha'  
  },  
  {  
    _id: ObjectId('65c47b1c04b9ade2c90cdb71'),  
    fid: 1764,  
    fname: 'Sanjana',  
    dept: 'CSE'  
  }  
]
```

```
facultydb> db.faculty.find({fid:1234})
```

```
[
  {
    _id: ObjectId('65c4734304b9ade2c90cdb70'),
    fid: 1234,
    fname: 'KLEF'
  }
]
```

```
facultydb> db.faculty.deleteOne({fid:1234})
```

```
{ acknowledged: true, deletedCount: 1 }
```

```
facultydb> db.faculty.find().size()
```

```
4
```

```
facultydb> db.faculty.countDocuments()
```

```
4
```

```
facultydb> db.faculty.find({dept:"CSE"})
```

```
[
  {
    _id: ObjectId('65c4734304b9ade2c90cdb6f'),
    fid: 5000,
    dept: 'CSE',
    fname: 'Harshitha'
  },
  {
    _id: ObjectId('65c47b1c04b9ade2c90cdb71'),
    fid: 1764,
    fname: 'Sanjana',
  }
]
```

```
    dept: 'CSE'
  }
]
facultydb> db.faculty.deleteMany({dept:"CSE"})
{ acknowledged: true, deletedCount: 2 }
facultydb>
```

SESSION-2

Microsoft Windows [Version 10.0.22631.3085]

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C:\Users\karthik>mongosh

Current Mongosh Log ID: 65c5a21626d8cc44ae96528e

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.3

Using MongoDB: 7.0.5

Using Mongosh: 2.1.3

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

The server generated these startup warnings when booting

2024-02-08T19:10:07.780+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   72.00 KiB
```

```
facultydb 72.00 KiB
```

```
local    72.00 KiB
```

```
test> use facultydb
```

```
switched to db facultydb
```

```
facultydb> db
```

```
facultydb
```

```
facultydb> db.faculty.find()
```

```
[
```

```
{
```

```
  _id: ObjectId('65c4711504b9ade2c90cdb6d'),
```

```
  fid: 4654,
```

```
  fname: 'SURYA'
```

```
},
```

```
{
```

```
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
```

```
  fid: 4414,
```

```
  fname: 'HARI'
```

```
}
```



```
]
```

```
facultydb> db.faculty.find({})
```

```
[
```

```
{
```

```
  _id: ObjectId('65c4711504b9ade2c90cdb6d'),
```

```
  fid: 4654,
```

```
  fname: 'SURYA'
```

```
},
```

```
{
```

```
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
```

```
  fid: 4414,
```

```
  fname: 'HARI'
```

```
}
```

```
]
```

```
facultydb> db.faculty.updateMany({},{$set:{gender:"MALE"}})
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: null,
```

```
  matchedCount: 2,
```

```
  modifiedCount: 2,
```

```
  upsertedCount: 0
```

```
}
```

```
facultydb> db.faculty.find()
```

```
[
```

```
{
```

```

    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA',
    gender: 'MALE'
  },
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI',
    gender: 'MALE'
  }
]

facultydb> bd.faculty.find({fid:4414})

ReferenceError: bd is not defined

facultydb> db.faculty.find({fid:4414})

[
  {
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),
    fid: 4414,
    fname: 'HARI',
    gender: 'MALE'
  }
]

facultydb> db.faculty.updateOne({fid:4414},{ $set:{fname:"SEETHA",gender:"FEMALE"}})

{

```

```
    acknowledged: true,  
    insertedId: null,  
    matchedCount: 1,  
    modifiedCount: 1,  
    upsertedCount: 0  
  }  
}
```

```
facultydb> bd.faculty.find({fid:4414})
```

```
ReferenceError: bd is not defined
```

```
facultydb> db.faculty.find({fid:4414})
```

```
[  
  {  
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),  
    fid: 4414,  
    fname: 'SEETHA',  
    gender: 'FEMALE'  
  }  
]
```

```
facultydb> db.faculty.find()
```

```
[  
  {  
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),  
    fid: 4654,  
    fname: 'SURYA',  
    gender: 'MALE'  
  },  
  {  
    _id: ObjectId('65c4729404b9ade2c90cdb6e'),  
    fid: 4414,  
    fname: 'SEETHA',  
    gender: 'FEMALE'  
  }  
]
```

```

{
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
  fid: 4414,
  fname: 'SEETHA',
  gender: 'FEMALE'
}
]

facultydb> db.faculty.updateOne({fid:1234},{ $set:{fid:1870,fname:"SRI"}})

{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}

facultydb> db.faculty.updateOne({fid:1234},{ $set:{fid:1870,fname:"SRI"}},{upsert:true})

{
  acknowledged: true,
  insertedId: ObjectId('65c5a6d3f490e57a7af530f0'),
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}

facultydb> db.faculty.find()

[

```

```
{
  _id: ObjectId('65c4711504b9ade2c90cdb6d'),
  fid: 4654,
  fname: 'SURYA',
  gender: 'MALE'
},
{
  _id: ObjectId('65c4729404b9ade2c90cdb6e'),
  fid: 4414,
  fname: 'SEETHA',
  gender: 'FEMALE'
},
{
  _id: ObjectId('65c5a6d3f490e57a7af530f0'),
  fid: 1870,
  fname: 'SRI'
}
]
facultydb> db.faculty.find({gender:"MALE"})
[
  {
    _id: ObjectId('65c4711504b9ade2c90cdb6d'),
    fid: 4654,
    fname: 'SURYA',
    gender: 'MALE'
```

```
}  
]
```

```
facultydb> db.faculty.find({fid:1870})
```

```
[  
  
  {  
  
    _id: ObjectId('65c5a6d3f490e57a7af530f0'),  
    fid: 1870,  
    fname: 'SRI'  
  }  
]
```

```
facultydb>
```

```
facultydb> db.faculty.updateMany({fid:1870},{ $set:{gender:"FEMALE"}})
```

```
{  
  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

```
facultydb> db.faculty.find({fid:1870})
```

```
[  
  
  {  
  
    _id: ObjectId('65c5a6d3f490e57a7af530f0'),  
    fid: 1870,
```

```

    fname: 'SRI',
    gender: 'FEMALE'
  }
]

facultydb> db.faculty.countDocuments({gender:"FEMALE"})

2

facultydb> db.faculty.distint("gender")

TypeError: db.faculty.distint is not a function

facultydb> db.faculty.distinct("gender")

[ 'FEMALE', 'MALE' ]

facultydb> db.createCollection("emp")

{ ok: 1 }

facultydb> db.emp.insertMany([{_id:1,name:"A"},{_id:2,name:"B"}])

{ acknowledged: true, insertedIds: { '0': 1, '1': 2 } }

facultydb> db.emp.find()

[ { _id: 1, name: 'A' }, { _id: 2, name: 'B' } ]

facultydb> db.emp.insertMany([{_id:3,name:"C"},{_id:4,name:"D"}])

{ acknowledged: true, insertedIds: { '0': 3, '1': 4 } }

facultydb> db.emp.find()

[
  { _id: 1, name: 'A' },
  { _id: 2, name: 'B' },
  { _id: 3, name: 'C' },
  { _id: 4, name: 'D' }
]

```

```
facultydb> db.emp.find().size()
```

```
4
```

```
facultydb> db.emp.find().skip(1)
```

```
[ { _id: 2, name: 'B' }, { _id: 3, name: 'C' }, { _id: 4, name: 'D' } ]
```

```
facultydb> db.emp.find().skip(4)
```

```
facultydb> db.emp.find().skip(3)
```

```
[ { _id: 4, name: 'D' } ]
```

```
facultydb> db.emp.find({}).sort()
```

```
[
```

```
  { _id: 1, name: 'A' },
```

```
  { _id: 2, name: 'B' },
```

```
  { _id: 3, name: 'C' },
```

```
  { _id: 4, name: 'D' }
```

```
]
```

```
facultydb> db.emp.find({}).sort({name:-1})
```

```
[
```

```
  { _id: 4, name: 'D' },
```

```
  { _id: 3, name: 'C' },
```

```
  { _id: 2, name: 'B' },
```

```
  { _id: 1, name: 'A' }
```

```
]
```

```
facultydb> db.emp.find({}).sort({name:-1}).limit(1)
```

```
[ { _id: 4, name: 'D' } ]
```

```
facultydb> db.emp.updateOne({_id:1},{ $set:{salary:1000.5}})
```



```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

```
facultydb> db.emp.updateOne({_id:2},{ $set:{salary:2000.5}})
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

```
facultydb> db.emp.updateOne({_id:3},{ $set:{salary:3000.5}})
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

```
facultydb> db.emp.updateOne({_id:4},{ $set:{salary:4000.5}})
```

```
{
```

```
    acknowledged: true,  
    insertedId: null,  
    matchedCount: 1,  
    modifiedCount: 1,  
    upsertedCount: 0  
  }
```

```
facultydb> db.emp.find()
```

```
[  
  { _id: 1, name: 'A', salary: 1000.5 },  
  { _id: 2, name: 'B', salary: 2000.5 },  
  { _id: 3, name: 'C', salary: 3000.5 },  
  { _id: 4, name: 'D', salary: 4000.5 }  
]
```

```
facultydb> db.emp.updateMany({},{$set:{gender:FEMALE}})
```

ReferenceError: FEMALE is not defined

```
facultydb> db.emp.updateMany({},{$set:{gender:"FEMALE"}})
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 4,  
  modifiedCount: 4,  
  upsertedCount: 0  
}
```

```
facultydb> db.emp.find()
```

```
[
```

```
{_id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
{_id: 2, name: 'B', salary: 2000.5, gender: 'FEMALE' },
{_id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },
{_id: 4, name: 'D', salary: 4000.5, gender: 'FEMALE' }
]
```

```
facultydb> db.emp.updateMany({_id:2},{ $set:{gender:"MALE"}})
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

```
facultydb> db.emp.find()
```

```
[
  {_id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
  {_id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
  {_id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },
  {_id: 4, name: 'D', salary: 4000.5, gender: 'FEMALE' }
]
```

```
facultydb> db.emp.updateOne({_id:4},{ $set:{name:"C",gender:"MALE"}})
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,

```

```
modifiedCount: 1,
upsertedCount: 0
}
facultydb> db.emp.find()
[
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
  { _id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },
  { _id: 4, name: 'C', salary: 4000.5, gender: 'MALE' }
]
facultydb> db.emp.countDocuments(gender:"FEMALE")
```

Uncaught:

SyntaxError: Unexpected token, expected ",", (1:28)

```
> 1 | db.emp.countDocuments(gender:"FEMALE")
```

```
    |           ^
```

```
2 |
```

```
facultydb> db.emp.countDocuments({gender:"FEMALE"})
```

```
2
```

```
facultydb> db.emp.find({})
```

```
[
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
  { _id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },

```

```

    { _id: 4, name: 'C', salary: 4000.5, gender: 'MALE' }
  ]

facultydb> db.emp.find({}, {name:1})

[
  { _id: 1, name: 'A' },
  { _id: 2, name: 'B' },
  { _id: 3, name: 'C' },
  { _id: 4, name: 'C' }
]

facultydb> db.emp.find({_id:4},{salary:1})

[ { _id: 4, salary: 4000.5 } ]

facultydb> db.emp.find({_id:3},{name:1,salary:1})

[ { _id: 3, name: 'C', salary: 3000.5 } ]

facultydb> db.emp.find({_id:3},{_id:0,name:1,salary:1})

[ { name: 'C', salary: 3000.5 } ]

facultydb> db.emp.find({salary:{$gt:2000}})

[
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
  { _id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },
  { _id: 4, name: 'C', salary: 4000.5, gender: 'MALE' }
]

facultydb> db.emp.find({salary:{$lt:3000}})

[
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' }
]

```

```
]
```

```
facultydb> db.emp.find({salary:{$lte3000.5:3000}})
```

Uncaught:

SyntaxError: Unexpected token, expected "," (1:29)

```
> 1 | db.emp.find({salary:{$lte3000.5:3000}})
```

```
    |           ^
```

```
2 |
```

```
facultydb> db.emp.find({salary:{$lte:3000.5}})
```

```
[
```

```
{_id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
```

```
{_id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
```

```
{_id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' }
```

```
]
```

```
facultydb> db.emp.find({salary:{$gte:2000.5}})
```

```
[
```

```
{_id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
```

```
{_id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },
```

```
{_id: 4, name: 'C', salary: 4000.5, gender: 'MALE' }
```

```
]
```

```
facultydb> db.emp.find({salary:{$ne:2000.5}})
```

```
[
```

```
{_id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
```

```
{_id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },
```

```
{_id: 4, name: 'C', salary: 4000.5, gender: 'MALE' }  
]
```

```
facultydb> db.emp.find({salary:{$not:{$gt:2000.5}}})
```

```
[  
  {_id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },  
  {_id: 2, name: 'B', salary: 2000.5, gender: 'MALE' }  
]
```

```
facultydb> db.emp.find({})
```

```
[  
  {_id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },  
  {_id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },  
  {_id: 3, name: 'C', salary: 3000.5, gender: 'FEMALE' },  
  {_id: 4, name: 'C', salary: 4000.5, gender: 'MALE' }  
]
```

```
facultydb>
```

```
facultydb> db.emp.updateMany({salary:{$gt:3000}},{$set:{salary:5000}})
```

Uncaught:

SyntaxError: Unexpected token, expected "," (1:57)

```
> 1 | db.emp.updateMany({salary:{$gt:3000}},{$set:{salary:5000}})
```

```
    |                               ^
```

```
2 |
```

```
facultydb> db.emp.updateMany({salary:{$gt:3000}},{$set:{salary:5000}})
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 2,  
  modifiedCount: 2,  
  upsertedCount: 0  
}
```

```
facultydb> db.emp.find({})
```

```
[  
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },  
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },  
  { _id: 3, name: 'C', salary: 5000, gender: 'FEMALE' },  
  { _id: 4, name: 'C', salary: 5000, gender: 'MALE' }  
]
```

```
facultydb> db.emp.find({name:{$in:["MALE","FEmale"]}})
```

```
facultydb> db.emp.find({gender:{$in:["MALE","FEmale"]}})
```

```
[  
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },  
  { _id: 4, name: 'C', salary: 5000, gender: 'MALE' }  
]
```

```
facultydb> db.emp.find({gender:{$in:["MALE","FEMALE"]}})
```

```
[  
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },  
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
```



```

{ _id: 3, name: 'C', salary: 5000, gender: 'FEMALE' },
{ _id: 4, name: 'C', salary: 5000, gender: 'MALE' }
]
facultydb> db.emp.find({gender:{$in:["MALE","FEMALE","OTHERS"]}})
[
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
  { _id: 2, name: 'B', salary: 2000.5, gender: 'MALE' },
  { _id: 3, name: 'C', salary: 5000, gender: 'FEMALE' },
  { _id: 4, name: 'C', salary: 5000, gender: 'MALE' }
]
facultydb> db.emp.find({gender:{$nin:["MALE"]}})
[
  { _id: 1, name: 'A', salary: 1000.5, gender: 'FEMALE' },
  { _id: 3, name: 'C', salary: 5000, gender: 'FEMALE' }
]
facultydb> db.emp.renameCollection("employee")
{ ok: 1 }
facultydb> db.employee.renameCollection("emp")
{ ok: 1 }
facultydb>

facultydb> db.emp.updateMany({},{$rename:{salary:"sal"}})
{
  acknowledged: true,
  insertedId: null,

```

```
    matchedCount: 4,
    modifiedCount: 4,
    upsertedCount: 0
}
facultydb> db.emp.find({})
[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
  { _id: 4, name: 'C', gender: 'MALE', sal: 5000 }
]
facultydb> db.emp.updateMany({_id:4},{ $set:{sal:7000}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
facultydb> db.emp.find({})
[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
```

```
]
```

```
facultydb> db.emp.find({$and:[{gender:"FEMALE"},{sal:{$gt:2000}}]})
```

```
[ { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 } ]
```

```
facultydb> db.emp.find({$or:[{gender:"FEMALE"},{sal:{$gt:2000}}]})
```

```
[
```

```
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
```

```
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
```

```
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
```

```
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
```

```
]
```

```
facultydb> db.emp.find({$or:[{gender:"FEMALE"},{sal:{$lt:2000}}]})
```

```
[
```

```
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
```

```
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 }
```

```
]
```

```
facultydb>
```

SESSION-3

Microsoft Windows [Version 10.0.22631.3085]

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C:\Users\karthik>mongosh

Current Mongosh Log ID: 65cb40682fe9f2db2fa316f6

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.3

Using MongoDB: 7.0.5

Using Mongosh: 2.1.3

For mongosh info see: <https://docs.mongodb.com/mongosh/>

The server generated these startup warnings when booting

2024-02-12T17:24:07.801+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 72.00 KiB

facultydb 144.00 KiB

local 72.00 KiB

test> use facultydb

switched to db facultydb

facultydb> show collections

emp

faculty

facultydb> db.emp.find({})

```
[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
]
```

facultydb> db.emp.find({}).sort({salary:-1})

```
[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
]
```

facultydb> db.emp.find({}).sort({salary:-1}).limit(1)

```
[ { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 } ]
```

facultydb> db.emp.find({}).sort({sal:-1}).limit(1)

```
[ { _id: 4, name: 'C', gender: 'MALE', sal: 7000 } ]
```

```
facultydb> db.emp.find({}, {name:1}).sort({sal:-1}).limit(1)
```

```
[ { _id: 4, name: 'C' } ]
```

```
facultydb> db.emp.find({}, {_id:0,name:1}).sort({sal:-1}).limit(1)
```

```
[ { name: 'C' } ]
```

```
facultydb> //aggregate functions or multi-document functions
```

```
facultydb> db.emp.aggregate({$count:"totalcount"})
```

```
[ { totalcount: 4 } ]
```

```
facultydb> db.emp.aggregate({$group:{_id:null,totalsal:{$sum:"$sal"}}})
```

```
[ { _id: null, totalsal: 15001 } ]
```

```
facultydb> db.emp.aggregate({$group:{_id:null,avgsal:{$avg:"$sal"}}})
```

```
[ { _id: null, avgsal: 3750.25 } ]
```

```
facultydb> db.emp.aggregate({$group:{_id:null,minsal:{$min:"$sal"}}})
```

```
[ { _id: null, minsal: 1000.5 } ]
```

```
facultydb> db.emp.aggregate({$group:{_id:null,maxsal:{$max:"$sal"}}})
```

```
[ { _id: null, maxsal: 7000 } ]
```

```
facultydb> db.emp.aggregate({$group:{_id:null,totalsal:{$sum:"$sal"}}})
```

```
[ { _id: null, totalsal: 15001 } ]
```

```
facultydb> db.emp.aggregate({$group:{_id:"$gender",totalsal:{$sum:"$sal"}}})
```

```
[
```

```
  { _id: 'FEMALE', totalsal: 6000.5 },
```

```
  { _id: 'MALE', totalsal: 9000.5 }
```

```
]
```

```
facultydb> db.emp.aggregate({$group:{_id:"$gender",avgsal:{$avg:"$sal"}}})
```

```

[
  { _id: 'FEMALE', avgsal: 3000.25 },
  { _id: 'MALE', avgsal: 4500.25 }
]

facultydb> db.emp.aggregate({$group:{_id:"$gender",minsal:{$min:"$sal"}}})
[ { _id: 'FEMALE', minsal: 1000.5 }, { _id: 'MALE', minsal: 2000.5 } ]

facultydb> db.emp.aggregate({$group:{_id:"$gender",maxsal:{$max:"$sal"}}})
[ { _id: 'FEMALE', maxsal: 5000 }, { _id: 'MALE', maxsal: 7000 } ]

facultydb> db.emp.aggregate({$match:{gender:"MALE"}})

[
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
]

facultydb> db.emp.aggregate([ {$match:{gender:"MALE"}} ,
{$group:{_id:"$gender",maxsal:{$max:"$sal"}} } ])
[ { _id: 'MALE', maxsal: 7000 } ]

facultydb> db.emp.aggregate([ {$match:{gender:"FEMALE"}} ,
{$group:{_id:"$gender",maxsal:{$max:"$sal"}} } ])
[ { _id: 'FEMALE', maxsal: 5000 } ]

facultydb> db.emp.aggregate({$match:{}})

[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
]

```

```
facultydb> db.emp.aggregate([ {$match:{gender:"FEMALE"}} ,
{$group:{_id:"$gender",maxsal:{$max:"$sal"}}} ])
```

```
[ { _id: 'FEMALE', maxsal: 5000 } ]
```

```
facultydb> db.emp.aggregate([ {$match:{gender:"MALE"}} ,
{$group:{_id:"$gender",maxsal:{$max:"$sal"}}} ])
```

```
[ { _id: 'MALE', maxsal: 7000 } ]
```

```
facultydb> db.emp.aggregate([ {$match:{gender:"MALE"}} ,
{$group:{_id:"$gender",maxsal:{$max:"$sal"}}} , {$project:{maxsal:1,_id:0}} ])
```

```
[ { maxsal: 7000 } ]
```

```
facultydb> db.emp.aggregate([ {$match:{}} , {$group:{_id:"$gender",maxsal:{$max:"$sal"}}} ,
{$project:{maxsal:1,_id:0}}, ])
```

```
[ { maxsal: 5000 }, { maxsal: 7000 } ]
```

```
facultydb> db.emp.aggregate([ {$match:{}} , {$group:{_id:"$gender",maxsal:{$max:"$sal"}}} ,
{$project:{maxsal:1,_id:0}},{$sort:{maxsal:1}} ])
```

```
[ { maxsal: 5000 }, { maxsal: 7000 } ]
```

```
facultydb> db.emp.aggregate([ {$match:{}} , {$group:{_id:"$gender",maxsal:{$max:"$sal"}}} ,
{$project:{maxsal:1,_id:0}},{$sort:{maxsal:-1}} ])
```

```
[ { maxsal: 7000 }, { maxsal: 5000 } ]
```

```
facultydb> db.emp.aggregate([ {$match:{}} , {$group:{_id:"$gender",maxsal:{$max:"$sal"}}} ,
{$project:{maxsal:1,_id:0}},{$sort:{maxsal:-1}},{$limit:1} ])
```

```
[ { maxsal: 7000 } ]
```

```
facultydb> db.emp.find({})
```

```
[
```

```
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },
```

```
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },
```

```
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },
```

```
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }
```

```
]
```



```
facultydb> db.emp.find({sal:{$not:{$gt:2000}}})

[ { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 } ]

facultydb> db.emp.updateMany({},{$set:{location:"VIZAG"}})

{
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 4,
  upsertedCount: 0
}

facultydb> db.emp.find({})

[
  {
    _id: 1,
    name: 'A',
    gender: 'FEMALE',
    sal: 1000.5,
    location: 'VIZAG'
  },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' },
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000, location: 'VIZAG' },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'VIZAG' }
]

facultydb> db.emp.updateMany({},{$unset:{location:""}})

{
```

```
acknowledged: true,  
insertedId: null,  
matchedCount: 4,  
modifiedCount: 4,  
upsertedCount: 0  
}
```

```
facultydb> db.emp.find({})
```

```
[  
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },  
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },  
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },  
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }  
]
```

```
facultydb> db.emp.aggregate([ {$match:{}}, {$out:"person"} ])
```

```
facultydb> show collections
```

```
emp
```

```
faculty
```

```
person
```

```
facultydb>
```

SESSION-4

Microsoft Windows [Version 10.0.22631.3085]

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C:\Users\karthik>mongosh

Current Mongosh Log ID: 65cda5c4e7feda17910f3723

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.1.3

Using MongoDB: 7.0.5

Using Mongosh: 2.1.3

mongosh 2.1.4 is available for download: <https://www.mongodb.com/try/download/shell>

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

The server generated these startup warnings when booting

2024-02-15T10:35:00.660+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   72.00 KiB
```

```
facultydb 184.00 KiB
```

```
local    76.00 KiB
```

```
test> use facultydb
```

```
switched to db facultydb
```

```
facultydb> show collections
```

```
emp
```

```
faculty
```

```
person
```

```
facultydb> db.emp.find({})
```

```
[  
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5 },  
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5 },  
  { _id: 3, name: 'C', gender: 'FEMALE', sal: 5000 },  
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000 }  
]
```

```
facultydb> db.emp.updateOne({_id:1},{ $set:{location:"VJA"}})
```

```
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0
```

```
}
```

```
facultydb> db.emp.updateOne({_id:2},{ $set:{location:"VIZAG"}})
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: null,
```

```
  matchedCount: 1,
```

```
  modifiedCount: 1,
```

```
  upsertedCount: 0
```

```
}
```

```
facultydb> db.emp.updateOne({_id:3},{ $set:{location:"GUNTUR"}})
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: null,
```

```
  matchedCount: 1,
```

```
  modifiedCount: 1,
```

```
  upsertedCount: 0
```

```
}
```

```
facultydb> db.emp.updateOne({_id:4},{ $set:{location:"SHIRIDI"}})
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: null,
```

```
  matchedCount: 1,
```

```
  modifiedCount: 1,
```

```
  upsertedCount: 0
```

```
}
```

```
facultydb> db.emp.find({})
```

```
[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5, location: 'VJA' },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' },
  {
    _id: 3,
    name: 'C',
    gender: 'FEMALE',
    sal: 5000,
    location: 'GUNTUR'
  },
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }
]
```

```
facultydb> db.emp.find({}, {name:1, location:1})
```

```
[
  { _id: 1, name: 'A', location: 'VJA' },
  { _id: 2, name: 'B', location: 'VIZAG' },
  { _id: 3, name: 'C', location: 'GUNTUR' },
  { _id: 4, name: 'C', location: 'SHIRIDI' }
]
```

```
facultydb> db.emp.find({location:/^V/}) //starts with
```

```
[
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5, location: 'VJA' },
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' }
]
```

```
facultydb> db.emp.find({location:/I$/}) //ends with
```

```
[  
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }  
]
```

```
facultydb> db.emp.find({location:/^VI/}) //starts with
```

```
[  
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' }  
]
```

```
facultydb> db.emp.find({location:/UR$/}) //ends with
```

```
[  
  {  
    _id: 3,  
    name: 'C',  
    gender: 'FEMALE',  
    sal: 5000,  
    location: 'GUNTUR'  
  }  
]
```

```
facultydb> db.emp.find({location:/NT/}) // contains
```

```
[  
  {  
    _id: 3,  
    name: 'C',  
    gender: 'FEMALE',  
    sal: 5000,
```

```

    location: 'GUNTUR'
  }
]

facultydb> db.emp.find({location:/l.*A/}) // in * means zero or more charecters

[
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' }
]

facultydb> db.emp.find({location:/S.*I/})

[
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }
]

facultydb> db.emp.find({location:/^S.*I$/})

[
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }
]

facultydb> db.createCollection("student")

{ ok: 1 }

facultydb> show collections

emp
faculty
person
student

facultydb> db.student.insertOne({_id:101,name:"MONIKA",skills:["AWS","MSWD"]})

{ acknowledged: true, insertedId: 101 }

facultydb> db.student.insertOne({_id:102,name:"TEJU",skills:["AWS"]})

```



```
{ acknowledged: true, insertedId: 102 }
```

```
facultydb> db.student.insertOne({_id:103,name:"PRABHAS",skills:["AWS","PFSD"]})
```

```
{ acknowledged: true, insertedId: 103 }
```

```
facultydb> db.student.find({})
```

```
[  
  { _id: 101, name: 'MONIKA', skills: [ 'AWS', 'MSWD' ] },  
  { _id: 102, name: 'TEJU', skills: [ 'AWS' ] },  
  { _id: 103, name: 'PRABHAS', skills: [ 'AWS', 'PFSD' ] }  
]
```

```
facultydb> db.emp.find({})
```

```
[  
  { _id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5, location: 'VJA' },  
  { _id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' },  
  {  
    _id: 3,  
    name: 'C',  
    gender: 'FEMALE',  
    sal: 5000,  
    location: 'GUNTUR'  
  },  
  { _id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }  
]
```

```
facultydb> db.emp.find({}).forEach( (e) => {
```

```
... print(e)
```

```
... })
```

```
{_id: 1, name: 'A', gender: 'FEMALE', sal: 1000.5, location: 'VJA' }  
{_id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' }  
{_id: 3, name: 'C', gender: 'FEMALE', sal: 5000, location: 'GUNTUR' }  
{_id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }
```

```
facultydb> db.emp.find({sal:{$gt:2000}}).forEach((e) => { print(e); })
```

```
{_id: 2, name: 'B', gender: 'MALE', sal: 2000.5, location: 'VIZAG' }  
{_id: 3, name: 'C', gender: 'FEMALE', sal: 5000, location: 'GUNTUR' }  
{_id: 4, name: 'C', gender: 'MALE', sal: 7000, location: 'SHIRIDI' }
```

```
facultydb> db.emp.find({sal:{$gt:2000}}).forEach((e) => { print(e._id); })
```

```
2
```

```
3
```

```
4
```

```
facultydb> db.emp.find({sal:{$gt:2000}}).forEach((e) => { print(e._id+", "+e.name); })
```

```
2,B
```

```
3,C
```

```
4,C
```

```
facultydb>
```