

Please enter a MongoDB connection string (Default: mongodb://localhost/):

Current Mongosh Log ID: 65447aaa3573fd85ebe51a93

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.0.2

Using MongoDB: 7.0.0

Using Mongosh: 2.0.2

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

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The server generated these startup warnings when booting

2023-11-01T10:39:13.683+05:30: Access control is not enabled for the database.

Read and write access to data and configuration is unrestricted

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test> use Employees

switched to db Employees

# Insert Employees

```
Employees> db.Employee.insertMany([ { ename: 'Rajiv', city: 'Pune' }, { ename: 'Tanmay', city: 'Nagpur' }, { ename: 'Dinesh', city: 'Mumbai' }, { ename: 'Aatish', city: 'Pune' }, { ename: 'Priyanka', city: 'Nagpur' }, { ename: 'Omkar', city: 'Mumbai' }, { ename: 'Raj', city: 'Pune' }, { ename: 'Sanket', city: 'Mumbai' }, { ename: 'Pragati', city: 'Pune' }, { ename: 'Sanika', city: 'Nagpur' } ])
```

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("65447b083573fd85ebe51a9e"),
    '1': ObjectId("65447b083573fd85ebe51a9f"),
    '2': ObjectId("65447b083573fd85ebe51aa0"),
    '3': ObjectId("65447b083573fd85ebe51aa1"),
    '4': ObjectId("65447b083573fd85ebe51aa2"),
    '5': ObjectId("65447b083573fd85ebe51aa3"),
    '6': ObjectId("65447b083573fd85ebe51aa4"),
    '7': ObjectId("65447b083573fd85ebe51aa5"),
    '8': ObjectId("65447b083573fd85ebe51aa6"),
    '9': ObjectId("65447b083573fd85ebe51aa7")
  }
}
```

# Create Companies

```
Employees> db.Company.insertMany([ { cname: "Google", city: "Pune" }, { cname: "Amazon", city: "Nagpur" }, { cname: "Flipkart", city: "Mumbai" }, { cname: "TCS", city: "Pune" }, { cname: "Wipro", city: "Mumbai" }, { cname: "Meta", city: "Mumbai" }, { cname: "JP Morgan", city: "Pune" }, { cname: "Credit Suisse", city: "Nagpur" }, { cname: "ACC", city: "Pune" }, { cname: "TATA", city: "Mumbai" }, { cname: "BAJAJ", city: "Nagpur" } ])
```

```
{
  acknowledged: true,
```

```

insertedIds: {
  '0': ObjectId("65447d143573fd85ebe51aa8"),
  '1': ObjectId("65447d143573fd85ebe51aa9"),
  '2': ObjectId("65447d143573fd85ebe51aaa"),
  '3': ObjectId("65447d143573fd85ebe51aab"),
  '4': ObjectId("65447d143573fd85ebe51aac"),
  '5': ObjectId("65447d143573fd85ebe51aad"),
  '6': ObjectId("65447d143573fd85ebe51aae"),
  '7': ObjectId("65447d143573fd85ebe51aaf"),
  '8': ObjectId("65447d143573fd85ebe51ab0"),
  '9': ObjectId("65447d143573fd85ebe51ab1"),
  '10': ObjectId("65447d143573fd85ebe51ab2")
}
}

# Connect Employee and Company

Employees> db.Emp_company.insertMany([ { ename: 'Rajiv', cname: 'ACC', salary:
6000.00, jdate: ISODate('2023-01-15T00:00:00Z') }, { ename: 'Tanmay', cname:
'TATA', salary: 8000.00, jdate: ISODate('2023-02-10T00:00:00Z') }, { ename:
'Dinesh', cname: 'ACC', salary: 5500.00, jdate: ISODate('2023-03-20T00:00:00Z') },
{ ename: 'Aatish', cname: 'TATA', salary: 7000.00, jdate:
ISODate('2023-04-05T00:00:00Z') }, { ename: 'Priyanka', cname: 'BAJAJ', salary:
7500.00, jdate: ISODate('2023-01-25T00:00:00Z') }, { ename: 'Omkar', cname:
'ACC', salary: 5000.00, jdate: ISODate('2023-03-01T00:00:00Z') }, { ename: 'Raj',
cname: 'TATA', salary: 9000.00, jdate: ISODate('2023-05-12T00:00:00Z') }, {
ename: 'Sanket', cname: 'BAJAJ', salary: 6500.00, jdate:
ISODate('2023-04-18T00:00:00Z') }, { ename: 'Pragati', cname: 'TATA', salary:
3000.00, jdate: ISODate('2023-06-08T00:00:00Z') }, { ename: 'Sanika', cname:
'BAJAJ', salary: 4500.00, jdate: ISODate('2023-07-03T00:00:00Z') } ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("65447db13573fd85ebe51ab3"),
    '1': ObjectId("65447db13573fd85ebe51ab4"),
    '2': ObjectId("65447db13573fd85ebe51ab5"),
    '3': ObjectId("65447db13573fd85ebe51ab6"),
    '4': ObjectId("65447db13573fd85ebe51ab7"),
    '5': ObjectId("65447db13573fd85ebe51ab8"),
    '6': ObjectId("65447db13573fd85ebe51ab9"),
    '7': ObjectId("65447db13573fd85ebe51aba"),
    '8': ObjectId("65447db13573fd85ebe51abb"),
    '9': ObjectId("65447db13573fd85ebe51abc")
  }
}
Employees>

# Insert Managers

Employees> db.Manager.insertMany([ { name: "Dinesh", company: "ACC" }, { name:
"Raj", company: "TATA" } ])
{
  acknowledged: true,
  insertedIds: {

```

```

    '0': ObjectId("65447dfb3573fd85ebe51abd"),
    '1': ObjectId("65447dfb3573fd85ebe51abe")
  }
}

```

# Create Shifts

```

Employees> db.Emp_shift.insertMany([ { ename: 'Rajiv', shift: 'Day' }, { ename:
'Tanmay', shift: 'Night' }, { ename: 'Dinesh', shift: 'Day' }, { ename: 'Aatish',
shift: 'Day' }, { ename: 'Priyanka', shift: 'Night' }, { ename: 'Omkar', shift:
'Night' }, { ename: 'Raj', shift: 'Day' }, { ename: 'Sanket', shift: 'Day' },{
ename: 'Pragati', shift: 'Night' }, { ename: 'Sanika', shift:'Day' } ])
{
  acknowledged: true,
}

```

Employees> db.Employee.find()

```

[
  {
    _id: ObjectId("65447b083573fd85ebe51a9e"),
    ename: 'Rajiv',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51a9f"),
    ename: 'Tanmay',
    city: 'Nagpur'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa0"),
    ename: 'Dinesh',
    city: 'Mumbai'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa1"),
    ename: 'Aatish',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa2"),
    ename: 'Priyanka',
    city: 'Nagpur'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa3"),
    ename: 'Omkar',
    city: 'Mumbai'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa4"),
    ename: 'Raj',
    city: 'Pune'
  },
  {

```

```

    _id: ObjectId("65447b083573fd85ebe51aa5"),
    ename: 'Sanket',
    city: 'Mumbai'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa6"),
    ename: 'Pragati',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa7"),
    ename: 'Sanika',
    city: 'Nagpur'
  }
]

```

Employees> db.Emp\_company.find()

```

[
  {
    _id: ObjectId("65447db13573fd85ebe51ab3"),
    ename: 'Rajiv',
    cname: 'ACC',
    salary: 6000,
    jdate: ISODate("2023-01-15T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab4"),
    ename: 'Tanmay',
    cname: 'TATA',
    salary: 8000,
    jdate: ISODate("2023-02-10T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab5"),
    ename: 'Dinesh',
    cname: 'ACC',
    salary: 5500,
    jdate: ISODate("2023-03-20T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab6"),
    ename: 'Aatish',
    cname: 'TATA',
    salary: 7000,
    jdate: ISODate("2023-04-05T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab7"),
    ename: 'Priyanka',
    cname: 'BAJAJ',
    salary: 7500,
    jdate: ISODate("2023-01-25T00:00:00.000Z")
  },
  {

```

```

    _id: ObjectId("65447db13573fd85ebe51ab8"),
    ename: 'Omkar',
    cname: 'ACC',
    salary: 5000,
    jdate: ISODate("2023-03-01T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab9"),
    ename: 'Raj',
    cname: 'TATA',
    salary: 9000,
    jdate: ISODate("2023-05-12T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51aba"),
    ename: 'Sanket',
    cname: 'BAJAJ',
    salary: 6500,
    jdate: ISODate("2023-04-18T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51abb"),
    ename: 'Pragati',
    cname: 'TATA',
    salary: 3000,
    jdate: ISODate("2023-06-08T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51abc"),
    ename: 'Sanika',
    cname: 'BAJAJ',
    salary: 4500,
    jdate: ISODate("2023-07-03T00:00:00.000Z")
  }
]

```

# Find Companies located in "Pune"

```

Employees> db.Company.find({ city: "Pune" }, { _id: 0, cname: 1})
[
  { cname: 'Google' },
  { cname: 'TCS' },
  { cname: 'JP Morgan' },
  { cname: 'ACC' }
]

```

# Find Companies Located in "Nagpur"

```

Employees> db.Company.find({ city: "Nagpur" }, { _id: 0, cname: 1 })
[ { cname: 'Amazon' }, { cname: 'Credit Suisse' }, { cname: 'BAJAJ' } ]

```

# retrieves the "ename" of employees who work for the "ACC" company and have a salary greater than 5000.

```

Employees> db.Employee.aggregate([ { $lookup: { from: "Emp_company", localField:
"ename", foreignField: "ename", as: "company_info" } }, { $match: {
"company_info.cname": "ACC", "company_info.salary": { $gt: 5000 } } }, {
$project: { _id: 0, ename: 1 } } ])
[ { ename: 'Rajiv' }, { ename: 'Dinesh' } ]

```

```

Employees> db.Emp_company.find({ "cname": "ACC", "salary": { $gt: 5000 } }, {
"ename": 1, "_id": 0 })
[ { ename: 'Rajiv' }, { ename: 'Dinesh' } ]

```

# Employees who are not part of "ACC"

```

Employees> db.Employee.aggregate([ { $lookup: { from: "Emp_company", localField:
"ename", foreignField: "ename", as: "company_info" } }, { $match: { "cname": {
$ne: "ACC" } } }, { $project: { _id: 0, ename: 1 } } ])
[
  { ename: 'Tanmay' },
  { ename: 'Aatish' },
  { ename: 'Priyanka' },
  { ename: 'Raj' },
  { ename: 'Sanket' },
  { ename: 'Pragati' },
  { ename: 'Sanika' }
]

```

```

Employees> db.Emp_company.find({ "cname": { $ne: "ACC" } }, { "ename": 1, "_id":
0 })
[
  { ename: 'Tanmay' },
  { ename: 'Aatish' },
  { ename: 'Priyanka' },
  { ename: 'Raj' },
  { ename: 'Sanket' },
  { ename: 'Pragati' },
  { ename: 'Sanika' }
]

```

# List the names of employees working for either "TATA" or "BAJAJ" companies with a salary between 2000 and 6000:

```

Employees>
db.Emp_company.find({"cname":{"$in":["TATA","BAJAJ"]},salary:{$gte:2000,$lte:6000}}
,{"ename":1,"_id":0})
[ { ename: 'Pragati' }, { ename: 'Sanika' } ]

```

# create an index on the "ename" field of the "Emp\_Company" collection

```

Employees> db.Emp_Company.createIndex({ "ename": 1 })
ename_1

```

# update state

```

Employees> db.Company.updateMany({}, { $set: { "state": "Maharashtra" } })

```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 11,
  modifiedCount: 11,
  upsertedCount: 0
}
```

Employees> db.Company.find()

```
[
  {
    _id: ObjectId("65447d143573fd85ebe51aa8"),
    cname: 'Google',
    city: 'Pune',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aa9"),
    cname: 'Amazon',
    city: 'Nagpur',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aaa"),
    cname: 'Flipkart',
    city: 'Mumbai',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aab"),
    cname: 'TCS',
    city: 'Pune',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aac"),
    cname: 'Wipro',
    city: 'Mumbai',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aad"),
    cname: 'Meta',
    city: 'Mumbai',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aae"),
    cname: 'JP Morgan',
    city: 'Pune',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51aaf"),
```

```

    cname: 'Credit Suisse',
    city: 'Nagpur',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51ab0"),
    cname: 'ACC',
    city: 'Pune',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51ab1"),
    cname: 'TATA',
    city: 'Mumbai',
    state: 'Maharashtra'
  },
  {
    _id: ObjectId("65447d143573fd85ebe51ab2"),
    cname: 'BAJAJ',
    city: 'Nagpur',
    state: 'Maharashtra'
  }
]

```

# Delete Manager

```

Employees> db.Manager.deleteMany({})
{ acknowledged: true, deletedCount: 2 }

```

```

Employees> db.Manager.find()

```

```

Employees> db.Manager.drop()
true

```

```

Employees> db.Manager.find()

```

```

Employees> db.Employee.find()
[
  {
    _id: ObjectId("65447b083573fd85ebe51a9e"),
    ename: 'Rajiv',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51a9f"),
    ename: 'Tanmay',
    city: 'Nagpur'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa0"),
    ename: 'Dinesh',
    city: 'Mumbai'
  },
  {

```



```

    _id: ObjectId("65447b083573fd85ebe51aa1"),
    ename: 'Aatish',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa2"),
    ename: 'Priyanka',
    city: 'Nagpur'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa3"),
    ename: 'Omkar',
    city: 'Mumbai'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa4"),
    ename: 'Raj',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa5"),
    ename: 'Sanket',
    city: 'Mumbai'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa6"),
    ename: 'Pragati',
    city: 'Pune'
  },
  {
    _id: ObjectId("65447b083573fd85ebe51aa7"),
    ename: 'Sanika',
    city: 'Nagpur'
  }
]

```

Employees> db.Emp\_company.find()

```

[
  {
    _id: ObjectId("65447db13573fd85ebe51ab3"),
    ename: 'Rajiv',
    cname: 'ACC',
    salary: 6000,
    jdate: ISODate("2023-01-15T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab4"),
    ename: 'Tanmay',
    cname: 'TATA',
    salary: 8000,
    jdate: ISODate("2023-02-10T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab5"),
    ename: 'Dinesh',

```

```

    cname: 'ACC',
    salary: 5500,
    jdate: ISODate("2023-03-20T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab6"),
    ename: 'Aatish',
    cname: 'TATA',
    salary: 7000,
    jdate: ISODate("2023-04-05T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab7"),
    ename: 'Priyanka',
    cname: 'BAJAJ',
    salary: 7500,
    jdate: ISODate("2023-01-25T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab8"),
    ename: 'Omkar',
    cname: 'ACC',
    salary: 5000,
    jdate: ISODate("2023-03-01T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51ab9"),
    ename: 'Raj',
    cname: 'TATA',
    salary: 9000,
    jdate: ISODate("2023-05-12T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51aba"),
    ename: 'Sanket',
    cname: 'BAJAJ',
    salary: 6500,
    jdate: ISODate("2023-04-18T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51abb"),
    ename: 'Pragati',
    cname: 'TATA',
    salary: 3000,
    jdate: ISODate("2023-06-08T00:00:00.000Z")
  },
  {
    _id: ObjectId("65447db13573fd85ebe51abc"),
    ename: 'Sanika',
    cname: 'BAJAJ',
    salary: 4500,
    jdate: ISODate("2023-07-03T00:00:00.000Z")
  }
}

```

]

Employees>