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

mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000   ×   bmscecse@bmscecse-HP-Pro-Tower-400-G9-PCI-Desktop-PC: ~

```
bmscecse@bmscecse-HP-Pro-Tower-400-G9-PCI-Desktop-PC:~$ mongosh
Current Mongosh Log ID: 6989a0289da944608151e943
Connecting to:          mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.4.0
Using MongoDB:          8.0.4
Using Mongosh:          2.4.0
mongosh 2.6.0 is available for download: https://www.mongodb.com/try/download/shell

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

------
   The server generated these startup warnings when booting
   2026-02-09T14:12:07.117+05:30: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
   2026-02-09T14:12:09.992+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
   2026-02-09T14:12:09.992+05:30: For customers running the current memory allocator, we suggest changing the contents of the following sysfsFile
   2026-02-09T14:12:09.992+05:30: For customers running the current memory allocator, we suggest changing the contents of the following sysfsFile
   2026-02-09T14:12:09.992+05:30: We suggest setting the contents of sysfsFile to 0.
   2026-02-09T14:12:09.992+05:30: We suggest setting swappiness to 0 or 1, as swapping can cause performance problems.
------

test> use Employee
switched to db Employee
Employee> db.createCollection("Employee_Info")
{ ok: 1 }
Employee> {
... Emp_id: Number,
... Emp_name: String,
... Designation: String,
... Date_of_Joining: Date,
... Salary: Number,
... Dept_Name: String
... }
...
...
Employee> db.Employee_Info.insertMany([
...     {
...         Emp_Id: 121,
...         Emp_Name: "Rahul",
...         Designation: "Software Engineer",
...         Date_of_Joining: new Date("2021-03-15"),
...         Salary: 60000,
...         Dept_Name: "IT"
...     },
...     {
...         Emp_Id: 122,
...         Emp_Name: "Anita",
...         Designation: "Senior Engineer",
...         Date_of_Joining: new Date("2020-06-10"),
...         Salary: 75000,
...         Dept_Name: "Development"
...     },
...     {
...         Emp_Id: 123,
...         Emp_Name: "Vikas",
...         Designation: "Manager",
```

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mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000   ×   bmscecse@bmscecse-HP-Pro-Tower-400-G9-PCI-Desktop-PC: ~

```
...         Emp_Name: "Rahul",
...         Designation: "Software Engineer",
...         Date_of_Joining: new Date("2021-03-15"),
...         Salary: 60000,
...         Dept_Name: "IT"
...     },
...     {
...         Emp_Id: 122,
...         Emp_Name: "Anita",
...         Designation: "Senior Engineer",
...         Date_of_Joining: new Date("2020-06-10"),
...         Salary: 75000,
...         Dept_Name: "Development"
...     },
...     {
...         Emp_Id: 123,
...         Emp_Name: "Vikas",
...         Designation: "Manager",
...         Date_of_Joining: new Date("2019-01-05"),
...         Salary: 90000,
...         Dept_Name: "HR"
...     }
... ])
...
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6989a1d69da944608151e944'),
    '1': ObjectId('6989a1d69da944608151e945'),
    '2': ObjectId('6989a1d69da944608151e946')
  }
}
Employee> db.Employee_Info.updateOne(
...     { Emp_Id: 121 },
...     {
...         $set: {
...             Emp_Name: "Rahul Sharma",
...             Dept_Name: "R&D"
...         }
...     }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.find().sort({ Salary: 1 })
...
[
  {
    _id: ObjectId('6989a1d69da944608151e944'),
```

```
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.find().sort({ Salary: 1 })
...
[
  {
    _id: ObjectId('6989a1d69da944608151e944'),
    Emp_Id: 121,
    Emp_Name: 'Rahul Sharma',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2021-03-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'R&D'
  },
  {
    _id: ObjectId('6989a1d69da944608151e945'),
    Emp_Id: 122,
    Emp_Name: 'Anita',
    Designation: 'Senior Engineer',
    Date_of_Joining: ISODate('2020-06-10T00:00:00.000Z'),
    Salary: 75000,
    Dept_Name: 'Development'
  },
  {
    _id: ObjectId('6989a1d69da944608151e946'),
    Emp_Id: 123,
    Emp_Name: 'Vikas',
    Designation: 'Manager',
    Date_of_Joining: ISODate('2019-01-05T00:00:00.000Z'),
    Salary: 90000,
    Dept_Name: 'HR'
  }
]
Employee> db.Employee_Info.find().sort({ Salary: -1 })
...
[
  {
    _id: ObjectId('6989a1d69da944608151e946'),
    Emp_Id: 123,
    Emp_Name: 'Vikas',
    Designation: 'Manager',
    Date_of_Joining: ISODate('2019-01-05T00:00:00.000Z'),
    Salary: 90000,
    Dept_Name: 'HR'
  },
  {
    _id: ObjectId('6989a1d69da944608151e945'),
    Emp_Id: 122,
    Emp_Name: 'Anita',
```

```
  }
]
Employee> db.Employee_Info.find().sort({ Salary: -1 })
...
[
  {
    _id: ObjectId('6989a1d69da944608151e946'),
    Emp_Id: 123,
    Emp_Name: 'Vikas',
    Designation: 'Manager',
    Date_of_Joining: ISODate('2019-01-05T00:00:00.000Z'),
    Salary: 90000,
    Dept_Name: 'HR'
  },
  {
    _id: ObjectId('6989a1d69da944608151e945'),
    Emp_Id: 122,
    Emp_Name: 'Anita',
    Designation: 'Senior Engineer',
    Date_of_Joining: ISODate('2020-06-10T00:00:00.000Z'),
    Salary: 75000,
    Dept_Name: 'Development'
  },
  {
    _id: ObjectId('6989a1d69da944608151e944'),
    Emp_Id: 121,
    Emp_Name: 'Rahul Sharma',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2021-03-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'R&D'
  }
]
Employee> db.Employee_Info.updateOne(
...   { Emp_Id: 121 },
...   {
...     $set: {
...       Projects: ["Payroll System", "AI Dashboard", "Cloud Migration"]
...     }
...   }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.updateOne(
...   { Emp_Id: 122 },
...   {
...     $set: {
        Projects: ["E-Commerce App", "API Gateway"]
```

```
...   }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.updateOne(
...   { Emp_Id: 122 },
...   {
...     $set: {
...       Projects: ["E-Commerce App", "API Gateway"]
...     }
...   }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Employee> db.Employee_Info.find(
...   { Emp_Id: { $in: [121, 122] } }
... )
...
[
  {
    _id: ObjectId('6989a1d69da944608151e944'),
    Emp_Id: 121,
    Emp_Name: 'Rahul Sharma',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2021-03-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'R&D',
    Projects: [ 'Payroll System', 'AI Dashboard', 'Cloud Migration' ]
  },
  {
    _id: ObjectId('6989a1d69da944608151e945'),
    Emp_Id: 122,
    Emp_Name: 'Anita',
    Designation: 'Senior Engineer',
    Date_of_Joining: ISODate('2020-06-10T00:00:00.000Z'),
    Salary: 75000,
    Dept_Name: 'Development',
    Projects: [ 'E-Commerce App', 'API Gateway' ]
  }
]
Employee>
```

```
... )
...
[
  {
    _id: ObjectId('6989a1d69da944608151e944'),
    Emp_Id: 121,
    Emp_Name: 'Rahul Sharma',
    Designation: 'Software Engineer',
    Date_of_Joining: ISODate('2021-03-15T00:00:00.000Z'),
    Salary: 60000,
    Dept_Name: 'R&D',
    Projects: [ 'Payroll System', 'AI Dashboard', 'Cloud Migration' ]
  },
  {
    _id: ObjectId('6989a1d69da944608151e945'),
    Emp_Id: 122,
    Emp_Name: 'Anita',
    Designation: 'Senior Engineer',
    Date_of_Joining: ISODate('2020-06-10T00:00:00.000Z'),
    Salary: 75000,
    Dept_Name: 'Development',
    Projects: [ 'E-Commerce App', 'API Gateway' ]
  }
]
Employee> db.Employee_Info.updateMany(
...   {},
...   { $set: { createdAt: new Date() } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
Employee> db.Employee_Info.createIndex(
...   { createdAt: 1 },
...   { expireAfterSeconds: 15 }
... )
...
createdAt_1
Employee> db.Employee_Info.find({ Emp_Id: 999 })
...
Employee> db.Employee_Info.find({ Emp_Id: 121 })
...
Employee> db.Employee_Info.find({ Emp_Id: 123 })
...
Employee> db.Employee_Info.find()
...
Employee>
```