

1. db.createCollection("salary")

MongoDB Compass - localhost:27023/Shell

Connections Edit View Help

The screenshot shows the MongoDB Compass application interface. On the left, the 'Connections' panel is expanded, showing a connection to 'localhost:27023'. Under this connection, three databases are listed: 'admin', 'config', and 'local'. The main area on the right is the 'Shell' (mongosh) terminal. It shows the command `> db.createCollection("salary")` being entered. The output is `< { ok: 1 }`, indicating the collection was successfully created. The prompt `test>` is visible at the bottom of the shell window.

```
>_ mongosh: localhost:270... +
>_MONGOSH
> db.createCollection("salary")
< { ok: 1 }
test>
```

```
2. db.salary.insertMany([
{
  "EmployeeID": "19001001111",
  "EmpName": "giorgi chakhidze",
  "Department": "Marketing",
  "Salary": 5001.00
},
{
  "EmployeeID": "19001002222",
  "EmpName": "lasha chakhidze",
  "Department": "Accounting",
  "Salary": 3390.00
},
{
  "EmployeeID": "19001003333",
  "EmpName": "igori chakhidze",
  "Department": "HR",
  "Salary": 2850.00
},
{
  "EmployeeID": "19001004444",
  "EmpName": "merabi chakhidze",
  "Department": "Procurement",
  "Salary": 3120.00
},
{
  "EmployeeID": "19001005555",
  "EmpName": "neli chakhidze",
  "Department": "Marketing",
  "Salary": 1449.00
},
{
  "EmployeeID": "19001006666",
  "EmpName": "inga chakhidze",
  "Department": "Finance",
  "Salary": 3650.00
}
])
```

Compass

{ } My Queries

CONNECTIONS (1)

▼ ★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

> mongosh: localhost:270...

> _MONGOSH

```
> db.createCollection("salary")
< { ok: 1 }
> db.salary.insertMany([
  {
    "EmployeeID": "19001001111",
    "EmpName": "giorgi chakhidze",
    "Department": "Marketing",
    "Salary": 5001.00
  },
  {
    "EmployeeID": "19001002222",
    "EmpName": "lasha chakhidze",
    "Department": "Accounting",
    "Salary": 3390.00
  },
  {
    "EmployeeID": "19001003333",
    "EmpName": "igori chakhidze",
    "Department": "HR",
    "Salary": 2850.00
  },
  {
    "EmployeeID": "19001004444",
    "EmpName": "merabi chakhidze",
    "Department": "Procurement",
    "Salary": 3120.00
  },
  {
    "EmployeeID": "19001005555",
    "EmpName": "neli chakhidze",
    "Department": "Marketing",
    "Salary": 1449.00
  },
  {
    "EmployeeID": "19001006666",
    "EmpName": "inga chakhidze",
    "Department": "Finance",
    "Salary": 3650.00
  }
])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('672b87067bb938e80cc9aaba'),
    '1': ObjectId('672b87067bb938e80cc9aabb'),
    '2': ObjectId('672b87067bb938e80cc9aabc'),
    '3': ObjectId('672b87067bb938e80cc9aabd'),
    '4': ObjectId('672b87067bb938e80cc9aabe'),
    '5': ObjectId('672b87067bb938e80cc9aabf')
  }
}
```



Compass is ready to update to
1.44.6!

RESTART



Type here to search



```
3. db.salary.find(
{
  "Department": "Marketing",
  $or: [
    { "Salary": { $gt: 5000 } },
    { "Salary": { $lt: 1450 } }
  ]
}
).pretty()
```

MongoDB Compass - localhost:27023/Shell

Connections Edit View Help

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CONNECTIONS (1)

Search connections

★ localhost:27023

▶ admin

▶ config

▶ local

> mongosh: localhost:270...



>_MONGOSH

```
> db.salary.find(
  {
    "Department": "Marketing",
    $or: [
      { "Salary": { $gt: 5000 } },
      { "Salary": { $lt: 1450 } }
    ]
  }
).pretty()
< {
  _id: ObjectId('672b87067bb938e80cc9aaba'),
  EmployeeID: '19001001111',
  EmpName: 'giorgi chakhidze',
  Department: 'Marketing',
  Salary: 5001
}
{
  _id: ObjectId('672b87067bb938e80cc9aabe'),
  EmployeeID: '19001005555',
  EmpName: 'neli chakhidze',
  Department: 'Marketing',
  Salary: 1449
}
test>
```

```
4. db.salary.insertMany([
{
  "EmployeeID": "19001001111",
  "EmpName": "gio chakhidze",
  "Department": "Marketing",
  "Salary": 6001.00
}])
```

```
db.salary.aggregate([
{
  $group: {
    _id: "$Department",
    totalSalary: { $sum: "$Salary" }
  }
},
{
  $match: { totalSalary: { $gt: 7000 } }
},
{
  $project: {
    _id: 0,
    Department: "$_id",
    totalSalary: 1
  }
}
])
```

Compass

{ } My Queries

CONNECTIONS (1)

Search connections

▼ ★ localhost:27023

▶ admin

▶ config

▶ local

> mongosh: localhost:270...

+

> _MONGOSH

```
> db.salary.insertMany([
  {
    "EmployeeID": "19001001111",
    "EmpName": "gio chakhidze",
    "Department": "Marketing",
    "Salary": 6001.00
  })
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('672b88ac7bb938e80cc9aac0')
  }
}
> db.salary.aggregate([
  {
    $group: {
      _id: "$Department",
      totalSalary: { $sum: "$Salary" }
    }
  },
  {
    $match: { totalSalary: { $gt: 7000 } }
  },
  {
    $project: {
      _id: 0,
      Department: "$_id",
      totalSalary: 1
    }
  }
])
< {
  totalSalary: 12451,
  Department: 'Marketing'
}
test>|
```

```
5. db.salary.aggregate([
{
  $match: { Department: { $in: ["Marketing", "HR"] } }
},
{
  $group: {
    _id: "$Department",
    avgSalary: { $avg: "$Salary" }
  }
},
{
  $match: { avgSalary: { $lt: 3000 } }
},
{
  $project: {
    _id: 0,
    Department: "$_id",
    avgSalary: 1
  }
}
])
```

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{ } My Queries

CONNECTIONS (1)

▼ ★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

> mongosh: localhost:270...



>_MONGOSH

```
> db.salary.aggregate([
  {
    $match: { Department: { $in: ["Marketing", "HR"] } }
  },
  {
    $group: {
      _id: "$Department",
      avgSalary: { $avg: "$Salary" }
    }
  },
  {
    $match: { avgSalary: { $lt: 3000 } }
  },
  {
    $project: {
      _id: 0,
      Department: "$_id",
      avgSalary: 1
    }
  }
])
< {
  avgSalary: 2850,
  Department: 'HR'
}
test>
```



```
6. db.salary.aggregate([
{
  $group: {
    _id: "$Department",
    Tanamshromlebi: { $sum: 1 }
  }
},
{
  $project: {
    _id: 0,
    Departamenti: "$_id",
    Tanamshromlebi: 1
  }
},
{
  $out: "report"
}
])
```

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CONNECTIONS (1)

Search connections

★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

> mongosh: localhost:270...

> _MONGOSH

```
> db.salary.aggregate([
  {
    $group: {
      _id: "$Department",
      Tanamshromlebi: { $sum: 1 }
    }
  },
  {
    $project: {
      _id: 0,
      Departamenti: "$_id",
      Tanamshromlebi: 1
    }
  },
  {
    $out: "report"
  }
])
<
> db.report.findOne()
< {
  _id: ObjectId('672b8a891abceb853faa0dd6'),
  Tanamshromlebi: 3,
  Departamenti: 'Marketing'
}
> db.report.find()
< {
  _id: ObjectId('672b8a891abceb853faa0dd6'),
  Tanamshromlebi: 3,
  Departamenti: 'Marketing'
}
{
  _id: ObjectId('672b8a891abceb853faa0dd7'),
  Tanamshromlebi: 1,
  Departamenti: 'Finance'
}
{
  _id: ObjectId('672b8a891abceb853faa0dd8'),
  Tanamshromlebi: 1,
  Departamenti: 'Accounting'
}
{
  _id: ObjectId('672b8a891abceb853faa0dd9'),
  Tanamshromlebi: 1,
  Departamenti: 'Procurement'
}
{
  _id: ObjectId('672b8a891abceb853faa0dda'),
  Tanamshromlebi: 1,
  Departamenti: 'HR'
}
test>
```

7. db.salary.drop()

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My Queries

CONNECTIONS (1)

Search connections

★ localhost:27023

- ▶ admin
- ▶ config
- ▶ local

mongosh: localhost:270...



>_MONGOSH

```
> db.salary.drop()
< true
> show collections
< report
test>
```