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## Connected to Python 3.11.4

```
In [ ]: import pymongo
        client=pymongo.MongoClient(
         "mongodb://localhost:27017"
In [ ]: | db=client['Employee']
In [ ]: emp=db['employee']
In [ ]: data=[{"employeeid":121,
         "firstname": "Emma",
         "lastname": "Johnson",
         "age":30,
         "department": "Human Resources",
         "salary":50000},
         {"employeeid":134,
         "firstname": "David",
         "lastname": "Smith",
         "age":34,
         "department": "Marketing",
         "salary":55000},
         {"employeeid":145,
         "firstname": "Mia",
         "lastname": "Davis",
         "age":28,
         "department": "Information Tech",
         "salary":62000},
         {"employeeid":167,
         "firstname":"Lucas",
         "lastname": "Brown",
         "age":40,
         "department": "Sales",
         "salary":48000},
         {"employeeid":153,
         "firstname": "Sophia",
         "lastname":"Wilson",
         "age":33,
         "department": "Research",
         "salary":53000},
In [ ]: emp.insert_many(data)
Out[]: <pymongo.results.InsertManyResult at 0x1ffc192dcc0>
In [ ]: for i in emp.find():
            print(i)
```

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{'_id': ObjectId('6562dd7a37cd13e25ba38daf'), 'employeeid': 121, 'firstname': 'Emm
       a', 'lastname': 'Johnson', 'age': 30, 'department': 'Human Resources', 'salary': 500
       00}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db0'), 'employeeid': 134, 'firstname': 'Davi
       d', 'lastname': 'Smith', 'age': 34, 'department': 'Marketing', 'salary': 55000}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db1'), 'employeeid': 145, 'firstname': 'Mia',
       'lastname': 'Davis', 'age': 28, 'department': 'Information Tech', 'salary': 62000}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db2'), 'employeeid': 167, 'firstname': 'Luca
       s', 'lastname': 'Brown', 'age': 40, 'department': 'Sales', 'salary': 48000}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db3'), 'employeeid': 153, 'firstname': 'Sophi
       a', 'lastname': 'Wilson', 'age': 33, 'department': 'Research', 'salary': 53000}
In [ ]: for i in emp.find({"department":"Marketing"}):
           print(i)
       {' id': ObjectId('6562dd7a37cd13e25ba38db0'), 'employeeid': 134, 'firstname': 'Davi
       d', 'lastname': 'Smith', 'age': 34, 'department': 'Marketing', 'salary': 55000}
In [ ]: | for i in emp.find({"age":{"$gte":30}}):
           print(i)
       {'_id': ObjectId('6562dd7a37cd13e25ba38daf'), 'employeeid': 121, 'firstname': 'Emm
       a', 'lastname': 'Johnson', 'age': 30, 'department': 'Human Resources', 'salary': 500
       90}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db0'), 'employeeid': 134, 'firstname': 'Davi
       d', 'lastname': 'Smith', 'age': 34, 'department': 'Marketing', 'salary': 55000}
         _id': ObjectId('6562dd7a37cd13e25ba38db2'), 'employeeid': 167, 'firstname': 'Luca
       s', 'lastname': 'Brown', 'age': 40, 'department': 'Sales', 'salary': 48000}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db3'), 'employeeid': 153, 'firstname': 'Sophi
       a', 'lastname': 'Wilson', 'age': 33, 'department': 'Research', 'salary': 53000}
In [ ]: for i in emp.find({"salary":{"$lt":50000}}):
           print(i)
       {'_id': ObjectId('6562dd7a37cd13e25ba38db2'), 'employeeid': 167, 'firstname': 'Luca
       s', 'lastname': 'Brown', 'age': 40, 'department': 'Sales', 'salary': 48000}
In [ ]: for i in emp.find({"department":"Information Tech"},{"_id":0,"firstname":1,"salary"
           print(i)
       {'firstname': 'Mia', 'salary': 62000}
In [ ]: for i in emp.find().sort("salary",-1):
           print(i)
       {'_id': ObjectId('6562dd7a37cd13e25ba38db1'), 'employeeid': 145, 'firstname': 'Mia',
       'lastname': 'Davis', 'age': 28, 'department': 'Information Tech', 'salary': 62000}
       {'id': ObjectId('6562dd7a37cd13e25ba38db0'), 'employeeid': 134, 'firstname': 'Davi
       d', 'lastname': 'Smith', 'age': 34, 'department': 'Marketing', 'salary': 55000}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db3'), 'employeeid': 153, 'firstname': 'Sophi
       a', 'lastname': 'Wilson', 'age': 33, 'department': 'Research', 'salary': 53000}
       {' id': ObjectId('6562dd7a37cd13e25ba38daf'), 'employeeid': 121, 'firstname': 'Emm
       a', 'lastname': 'Johnson', 'age': 30, 'department': 'Human Resources', 'salary': 500
       00}
       {'_id': ObjectId('6562dd7a37cd13e25ba38db2'), 'employeeid': 167, 'firstname': 'Luca
       s', 'lastname': 'Brown', 'age': 40, 'department': 'Sales', 'salary': 48000}
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