```
use db;
db.createCollection('employees');
db.employees.insertMany([
  { _id: 1, name: "Alice",   dept: "HR",      salary: 50000, age: 30 },
  { _id: 2, name: "Bob",     dept: "IT",      salary: 60000, age: 25 },
  { _id: 3, name: "Charlie", dept: "Finance", salary: 55000, age: 28 },
  { _id: 4, name: "David",   dept: "IT",      salary: 70000, age: 35 },
  { _id: 5, name: "Eve",     dept: "HR",      salary: 48000, age: 22 }
])
db.employees.count();
db.employees.count({dept:"IT"});

db.employees.find().sort({age:-1}); //descending order of salary
db.employees.find().sort({age:1}); //ascending order

db.employees.find().limit(3);

db.employees.find().skip(3);

db.employees.aggregate([
  { $group: { _id: "$dept", avgSalary: { $avg: "$salary" } } }
])

db.employees.aggregate([
    {$match: {salary: {$gt: 45000}}},
    {$project: {name: 1, salary: 1, _id: 0}}
])
```

Output

```
 mycompiler_mongodb> switched to db db
db> { ok: 1 }
db>
db> ... ... ... ... ... ... {
  acknowledged: true,
  insertedIds: { '0': 1, '1': 2, '2': 3, '3': 4, '4': 5 }
}
db>
db> DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
5
db> 2
db>
db> [
  { _id: 4, name: 'David', dept: 'IT', salary: 70000, age: 35 },
  { _id: 1, name: 'Alice', dept: 'HR', salary: 50000, age: 30 },
  { _id: 3, name: 'Charlie', dept: 'Finance', salary: 55000, age: 28 },
  { _id: 2, name: 'Bob', dept: 'IT', salary: 60000, age: 25 },
```

```
db> [
  { _id: 5, name: 'Eve', dept: 'HR', salary: 48000, age: 22 },
  { _id: 2, name: 'Bob', dept: 'IT', salary: 60000, age: 25 },
  { _id: 3, name: 'Charlie', dept: 'Finance', salary: 55000, age: 28 },
  { _id: 1, name: 'Alice', dept: 'HR', salary: 50000, age: 30 },
  { _id: 4, name: 'David', dept: 'IT', salary: 70000, age: 35 }
]
db>
db> [
  { _id: 1, name: 'Alice', dept: 'HR', salary: 50000, age: 30 },
  { _id: 2, name: 'Bob', dept: 'IT', salary: 60000, age: 25 },
  { _id: 3, name: 'Charlie', dept: 'Finance', salary: 55000, age: 28 }
]
db>
db> [
  { _id: 4, name: 'David', dept: 'IT', salary: 70000, age: 35 },
  { _id: 5, name: 'Eve', dept: 'HR', salary: 48000, age: 22 }
]
db>
```

```
]
db>
db> ... ... [
  { _id: 'HR', avgSalary: 49000 },
  { _id: 'IT', avgSalary: 65000 },
  { _id: 'Finance', avgSalary: 55000 }
]
db>
db> ... ... ... [
  { name: 'Alice', salary: 50000 },
  { name: 'Bob', salary: 60000 },
  { name: 'Charlie', salary: 55000 },
  { name: 'David', salary: 70000 },
  { name: 'Eve', salary: 48000 }
]
db>

[Execution complete with exit code 0]
```