```
// create db
use rvce;
// to check db
show dbs;
db.dropDatabase()
1) Insert minimum 5 employee records.
// insert records for emp table
db.emp.insert({_eid: "E1001", ename:"Durgesh", socialno: "S1001", addr1: "knp", esal: 90000,
gender : "M" , emp_exp : 10})
db.emp.insert({_eid: "E1006", ename:"Adity", socialno: "S1006", addr1: "Mum", esal: 750000,
gender : "M" , emp_exp : 12 })
db.emp.insert({_eid: "E1007", ename: "Anurag", socialno: "S1007", addr1: "Knp", esal: 95000,
gender : "M" , emp_exp : 14})
db.emp.find().forEach(printjson)
// insert records for dept table
db.dept.insert({_dno: "D101", dname:"IT", mgid: db.emp.find()[0]._eid, mg_start_date: 2005})
db.dept.insert({_dno: "D106", dname: "finance", mgid: db.emp.find()[5]._eid, mg_start_date:
2019})
db.dept.insert({_dno: "D107", dname: "finance", mgid: db.emp.find()[6]._eid, mg_start_date:
2020})
db.dept.find().forEach(printjson)
// insert records for project table
db.proj.insert({_pid: "P101", pname: "retail", ploc: "Blr", dno: db.dept.find()[0]._dno})
db.proj.insert({_pid: "P106", pname:"private", ploc: "Hyd", dno: db.dept.find()[5]._dno})
db.proj.insert({_pid: "P107", pname: "retail", ploc: "Hyd", dno: db.dept.find()[6]._dno})
db.dept.find().forEach(printjson)
// insert records for workson table
db.workson.insert({eid : db.emp.find()[0]._eid , pid : db.proj.find()[0]._pid })
db.workson.insert({eid : db.emp.find()[1]._eid , pid : db.proj.find()[1]._pid })
db.workson.insert({eid : db.emp.find()[6]._eid , pid : db.proj.find()[6]._pid })
```

db.workson.find().forEach(printjson)

```
db.emp.find().pretty()
       " id" : ObjectId("613c8598d81a2620f7ebd193"),
       "_eid" : "E1001",
"ename" : "Durgesh"
       "socialno" : "S1001",
"addr1" : "knp",
       "esal" : 90000,
       "gender" : "M",
       "emp_exp" : 10
       "_id" : ObjectId("613c8598d81a2620f7ebd197"),
       "_eid" : "E1006",
       "ename" : "Adity",
       "socialno" : "S1006",
       "addr1" : "Mum",
"esal" : 750000,
       "gender" : "M",
       "emp_exp" : 12
       "_id" : ObjectId("613c8598d81a2620f7ebd198"),
       "_eid" : "E1007",
"ename" : "Anurag",
"socialno" : "S1007",
"addr1" : "Knp",
       "esal": 95000,
       "gender" : "M",
       "emp_exp" : 14
```

## 2) Sort the employee list by SSN

```
// ascending order
```

db.emp.find().sort({socialno:-1})

// descending order
db.emp.find().sort({socialno:-1})

3) List the employees who are working in the finance department

>db.employee.find({department:"finance"}).forEach(printjson);

```
"_id" : ObjectId("613da9f5de9ccd88df2451cc"),
"ssn : 123,
"ssn : 123,
"separtment": "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("613da9fede9ccd88df2451cd"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("613daa17de9ccd88df2451ce"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("613daa88de9ccd88df2451cf"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("613daa92de9ccd88df2451d0"),
"ssn" : 124,
"name" : "nehash",
"department" : "banking",
"salary" : 3000,
"projects" : 4,
"experiance" : 10
"_id" : ObjectId("613daa9ade9ccd88df2451d1"),
"ssn" : 125,
"name" : "tejas",
"department" : "accounts",
"_id" : ObjectId("613daaa1de9ccd88df2451d2"),
"ssn" : 126,
"name" : "akash",
"department" : "finance",
"salary" : 5000,
"project" : 5,
"experiance" : 12,
"awarded" : "employee of year"
"_id" : ObjectId("613daaa8de9ccd88df2451d3"),
"ssn" : 127,
"name" : "sanjay",
"department" : "stockbroker",
"salary" : 1000,
"projects" : 3,
"experiance" : 11
"_id" : ObjectId("614058e85dcd2241f6ce0c20"),
"ssn" : 123,
"name" : "Suman",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("614058ef5dcd2241f6ce0c21"),
"ssn": 124,
"name": "Ravi",
"department": "banking",
"salary" : 3000,
"projects" : 4,
"experiance" : 10
"_id" : ObjectId("614058f65dcd2241f6ce0c22"),
"ssn" : 125,
"name" : "Deepak",
"department" : "accounts",
"salary" : 4000,
```

```
"_id" : ObjectId("614058fd5dcd2241f6ce0c23"),
            "ssn": 126,
"name": "Prince",
"department": "finance",
            "salary" : 5000,
            "project" : 5,
"experiance" : 12
            "_id" : ObjectId("614059035dcd2241f6ce0c24"),
"ssn" : 127,
"name" : "sanjay",
"department" : "stockbroker",
            "salary" : 1000,
"projects" : 3,
"experiance" : 11
db.employee.find({department:"finance"}).forEach(printjson)
           "_id" : ObjectId("613da9f5de9ccd88df2451cc"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
            "_id" : ObjectId("613da9fede9ccd88df2451cd"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
            "salary" : 2000,
"projects" : 2,
"experiance" : 20
           "_id" : ObjectId("613daa17de9ccd88df2451ce"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
```

```
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("613daa88de9ccd88df2451cf"),
"ssn" : 123,
"name" : "vishwas",
"department" : "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("613daaa1de9ccd88df2451d2"),
"ssn" : 126,
"name" : "akash",
"department" : "finance",
"salary" : 5000,
"project" : 5,
"experiance" : 12,
"awarded" : "employee of year"
"_id" : ObjectId("614058e85dcd2241f6ce0c20"),
"ssn": 123,
"name": "Suman",
"department": "finance",
"salary" : 2000,
"projects" : 2,
"experiance" : 20
"_id" : ObjectId("614058fd5dcd2241f6ce0c23"),
"ssn" : 126,
"name" : "Prince",
"department" : "finance",
"salary" : 5000,
"project" : 5,
"experiance" : 12
```

4) Find the employee who draws the maximum salary.

\_\_\_\_\_

```
// to get highest salary
db.emp.find({}).sort({"esal":-1}).limit(1)
// second highest salary
db.emp.find({}).sort({"esal":-1}).skip(1).limit(1)
```

```
/
> db.emp.find({}).sort({"esal":-1}).limit(1)
{ "_id" : ObjectId("613c8598d81a2620f7ebd197"), "_eid" : "E1006", "ename" : "Adity", "socialno" : "S1006", "addr1" : "Mum", "esal" : 750000, "gender" : "M", "emp_exp" :
12 }
```

5) Update the record of the employee who has worked on maximum projects as "employee of the year"

\_\_\_\_\_

```
> db.employee.update({project:5},{$set:{awarded:"employee of year"}})
> db.employee.update({project:5},{$set:{awarded:"employee of year"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 0 })
>
```

6) Delete employee records who have minimum experience

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db.emp.remove({emp exp: db.emp.find().sort({emp exp:1})[0].emp exp})

```
db.emp.find().pretty()
                    "_id" : ObjectId("613c8598d81a2620f7ebd193"),
"_eid" : "E1001",
"ename" : "Durgesh",
"socialno" : "S1001",
                    "addr1" : "knp",
"esal" : 90000,
"gender" : "M",
"emp_exp" : 10
                   "_id" : ObjectId("613c8598d81a2620f7ebd197"),
"_eid" : "E1006",
"ename" : "Adity",
"socialno" : "S1006",
"addr1" : "Mum",
"esal" : 750000,
"gender" : "M",
"emp_exp" : 12
                    "_id" : ObjectId("613c8598d81a2620f7ebd198"),
"_eid" : "E1007",
"ename" : "Anurag",
                    "socialno" : "S1007",
                    "addr1" : "Knp",
"esal" : 95000,
"gender" : "M",
"emp_exp" : 14
> db.emp.remove({emp_exp: db.emp.find().sort({emp_exp:1})[0].emp_exp})
WriteResult({ "nRemoved" : 1 })
> db.emp.find().pretty()
                    "_id" : ObjectId("613c8598d81a2620f7ebd197"),
"_eid" : "E1006",
"ename" : "Adity",
"socialno" : "S1006",
                    "socialno" : "S1
"addr1" : "Mum",
"esal" : 750000,
"gender" : "M",
"emp_exp" : 12
                   "_id" : ObjectId("613c8598d81a2620f7ebd198"),
"_eid" : "E1007",
"ename" : "Anurag",
"socialno" : "S1007",
"addr1" : "Knp",
"esal" : 95000,
"gender" : "M",
"emp_exp" : 14
```