```
// DBMSL B5 - 31139 (Durvesh)
// Design and implement any 5 query using MongoDB
// Queries
> use doorways
switched to db doorways
db.teachers.insertOne({name:"Paresh",qualification:"MTech",deptno:1,deptname:"computer",desig
nation:"assistant
professor",experience:12,salary:{basic:20000,TA:1000,DA:1000,HRA:2000},date of joining:new
Date("2008-06-01"), areaOfExpertise: "DBMS"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa2562cb06734c11a24749b")
}
db.teachers.insertOne({name:"Sarvadnya",qualification:"PhD",deptno:1,deptname:"computer",desi
gnation:"HOD", experience:20, salary: {basic:75000, TA:1000, DA:1000, HRA:2000}, date_of_joining:new
Date("2000-06-01"), areaOfExpertise: "CN"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa25632b06734c11a24749c")
}
db.teachers.insertOne({name:"Nilesh",qualification:"MTech",deptno:1,deptname:"computer",desig
nation:"assistant
professor",experience:10,salary:{basic:18000,TA:1000,DA:1000,HRA:2000},date_of_joining:new
Date("2010-06-01"), areaOfExpertise: "DBMS"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa25639b06734c11a24749d")
}
```

db.teachers.insertOne({name:"Digvijay",qualification:"PhD",deptno:2,deptname:"IT",designation:"H

```
OD", experience:18, salary: {basic:75000, TA:1000, DA:1000, HRA:2000}, date_of_joining:new
Date("2002-06-01"), area Of Expertise: "ML" })
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa25640b06734c11a24749e")
}
db.teachers.insertOne({name: "Dhananjay", qualification: "ME", deptno: 2, deptname: "IT", designation: "
assistant
professor",experience:15,salary:{basic:40000,TA:1000,DA:1000,HRA:2000},date of joining:new
Date("2005-06-01"), areaOfExpertise: "AI"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa25646b06734c11a24749f")
}
db.teachers.insertOne({name:"Dipesh",qualification:"ME",deptno:2,deptname:"IT",designation:"assi
stant
professor",experience:13,salary:{basic:60000,TA:1000,DA:1000,HRA:2000},date_of_joining:new
Date("2007-06-01"), area Of Expertise: "ML"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa2564bb06734c11a2474a0")
}
db.teachers.insertOne({name:"Ram",qualification:"PhD",deptno:3,deptname:"ENTC",designation:"H
OD", experience: 22, salary: {basic: 80000, TA: 1000, DA: 1000, HRA: 2000}, date of joining: new
Date("1998-06-01"), area Of Expertise: "Communication"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa25650b06734c11a2474a1")
}
db.teachers.insertOne({name: "Sham", qualification: "ME", deptno: 3, deptname: "ENTC", designation: "a
professor",experience:5,salary:{basic:25000,TA:1000,DA:1000,HRA:2000},date_of_joining:new
Date("2015-06-01"), area Of Expertise: "Digital electronics" ))
```

```
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa25656b06734c11a2474a2")
}
db.teachers.insertOne({name:"Anil",qualification:"ME",deptno:3,deptname:"ENTC",designation:"ass
istant professor", experience: 8, salary: {basic: 40000, TA: 1000, DA: 1000, HRA: 2000}, date of joining: new
Date("2012-06-01"),areaOfExpertise:"Digital electronics"})
{
    "acknowledged": true,
    "insertedId": ObjectId("5fa2565cb06734c11a2474a3")
}
>
> db.teachers.find()
{ "_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "qualification" : "MTech",
"deptno": 1, "deptname": "computer", "designation": "assistant professor", "experience": 12,
"salary": { "basic": 20000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining":
ISODate("2008-06-01T00:00:00Z"), "areaOfExpertise": "DBMS" }
{ "_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "qualification" : "PhD",
"deptno": 1, "deptname": "computer", "designation": "HOD", "experience": 20, "salary": { "basic"
: 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date of joining" : ISODate("2000-06-
01T00:00:00Z"), "areaOfExpertise" : "CN" }
{ "_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "qualification" : "MTech",
"deptno": 1, "deptname": "computer", "designation": "assistant professor", "experience": 10,
"salary": { "basic": 18000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining":
ISODate("2010-06-01T00:00:00Z"), "areaOfExpertise": "DBMS" }
{ "_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "qualification" : "PhD",
"deptno": 2, "deptname": "IT", "designation": "HOD", "experience": 18, "salary": { "basic": 75000,
"TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("2002-06-01T00:00:00Z"),
"areaOfExpertise": "ML" }
{ "_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "qualification" : "ME",
"deptno": 2, "deptname": "IT", "designation": "assistant professor", "experience": 15, "salary": {
```

```
"basic": 40000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2005-06-
01T00:00:00Z"), "areaOfExpertise": "AI" }
{ "id": ObjectId("5fa2564bb06734c11a2474a0"), "name": "Dipesh", "qualification": "ME",
"deptno": 2, "deptname": "IT", "designation": "assistant professor", "experience": 13, "salary": {
"basic": 60000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2007-06-
01T00:00:00Z"), "areaOfExpertise" : "ML" }
{ "id": ObjectId("5fa25650b06734c11a2474a1"), "name": "Ram", "qualification": "PhD", "deptno"
: 3, "deptname" : "ENTC", "designation" : "HOD", "experience" : 22, "salary" : { "basic" : 80000, "TA" :
1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("1998-06-01T00:00:00Z"),
"areaOfExpertise": "Communication" }
{ "id": ObjectId("5fa25656b06734c11a2474a2"), "name": "Sham", "qualification": "ME", "deptno"
: 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 5, "salary" : { "basic" :
25000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2015-06-
01T00:00:00Z"), "areaOfExpertise": "Digital electronics" }
{ "id": ObjectId("5fa2565cb06734c11a2474a3"), "name": "Anil", "qualification": "ME", "deptno":
3, "deptname": "ENTC", "designation": "assistant professor", "experience": 8, "salary": { "basic":
40000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2012-06-
01T00:00:00Z"), "areaOfExpertise": "Digital electronics" }
> db.teachers.find({deptname:"computer"}).pretty()
{
    " id": ObjectId("5fa2562cb06734c11a24749b"),
    "name": "Paresh",
    "qualification": "MTech",
    "deptno": 1,
    "deptname": "computer",
    "designation": "assistant professor",
    "experience": 12,
    "salary" : {
        "basic" : 20000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date of joining": ISODate("2008-06-01T00:00:00Z"),
    "areaOfExpertise": "DBMS"
}
```

```
{
    "_id": ObjectId("5fa25632b06734c11a24749c"),
    "name": "Sarvadnya",
    "qualification": "PhD",
    "deptno": 1,
    "deptname": "computer",
    "designation": "HOD",
    "experience": 20,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2000-06-01T00:00:00Z"),
    "areaOfExpertise": "CN"
}
{
    "_id": ObjectId("5fa25639b06734c11a24749d"),
    "name": "Nilesh",
    "qualification": "MTech",
    "deptno": 1,
    "deptname": "computer",
    "designation": "assistant professor",
    "experience": 10,
    "salary" : {
        "basic": 18000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
```

```
"date_of_joining": ISODate("2010-06-01T00:00:00Z"),
    "areaOfExpertise": "DBMS"
}
>
>
>
>
>
>
> db.teachers.find({deptname:{$in:["computer","IT","ENTC"]}})
{ "_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "qualification" : "MTech",
"deptno": 1, "deptname": "computer", "designation": "assistant professor", "experience": 12,
"salary" : { "basic" : 20000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date_of_joining" :
ISODate("2008-06-01T00:00:00Z"), "areaOfExpertise": "DBMS" }
{ "id": ObjectId("5fa25632b06734c11a24749c"), "name": "Sarvadnya", "qualification": "PhD",
"deptno": 1, "deptname": "computer", "designation": "HOD", "experience": 20, "salary": { "basic"
: 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date_of_joining" : ISODate("2000-06-
01T00:00:00Z"), "areaOfExpertise" : "CN" }
{ "_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "qualification" : "MTech",
"deptno": 1, "deptname": "computer", "designation": "assistant professor", "experience": 10,
"salary": { "basic": 18000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining":
ISODate("2010-06-01T00:00:00Z"), "areaOfExpertise": "DBMS" }
{ "id": ObjectId("5fa25640b06734c11a24749e"), "name": "Digvijay", "qualification": "PhD",
"deptno": 2, "deptname": "IT", "designation": "HOD", "experience": 18, "salary": { "basic": 75000,
"TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2002-06-01T00:00:00Z"),
"areaOfExpertise": "ML" }
{ "_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "qualification" : "ME",
"deptno": 2, "deptname": "IT", "designation": "assistant professor", "experience": 15, "salary": {
"basic": 40000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("2005-06-
01T00:00:00Z"), "areaOfExpertise": "AI" }
{ "_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "qualification" : "ME",
"deptno": 2, "deptname": "IT", "designation": "assistant professor", "experience": 13, "salary": {
"basic": 60000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("2007-06-
01T00:00:00Z"), "areaOfExpertise" : "ML" }
{ "_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "qualification" : "PhD", "deptno"
: 3, "deptname" : "ENTC", "designation" : "HOD", "experience" : 22, "salary" : { "basic" : 80000, "TA" :
1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("1998-06-01T00:00:00Z"),
"areaOfExpertise": "Communication" }
```

```
{ "_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "qualification" : "ME", "deptno"
: 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 5, "salary" : { "basic" :
25000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("2015-06-
01T00:00:00Z"), "areaOfExpertise": "Digital electronics" }
{ "_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "qualification" : "ME", "deptno" :
3, "deptname": "ENTC", "designation": "assistant professor", "experience": 8, "salary": { "basic":
40000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2012-06-
01T00:00:00Z"), "areaOfExpertise": "Digital electronics" }
>
>
>
>
>
db.teachers.find({$and:[{"salary.basic":{$gte:70000}},{"salary.basic":{$lte:100000}},{deptname:{$in:[
"computer","IT","ENTC"]}}]).pretty()
{
    "_id": ObjectId("5fa25632b06734c11a24749c"),
    "name": "Sarvadnya",
    "qualification": "PhD",
    "deptno": 1,
    "deptname": "computer",
    "designation": "HOD",
    "experience": 20,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date of joining": ISODate("2000-06-01T00:00:00Z"),
    "areaOfExpertise": "CN"
}
{
```

```
"_id": ObjectId("5fa25640b06734c11a24749e"),
    "name": "Digvijay",
    "qualification": "PhD",
    "deptno": 2,
    "deptname": "IT",
    "designation": "HOD",
    "experience": 18,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2002-06-01T00:00:00Z"),
    "areaOfExpertise": "ML"
}
{
    "_id": ObjectId("5fa25650b06734c11a2474a1"),
    "name": "Ram",
    "qualification": "PhD",
    "deptno": 3,
    "deptname": "ENTC",
    "designation": "HOD",
    "experience": 22,
    "salary" : {
        "basic": 80000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("1998-06-01T00:00:00Z"),
```

```
"areaOfExpertise" : "Communication"
}
> db.teachers.update({name:"Digvijay"},{$set:{experience:10}},{upsert:true})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.teachers.find({name:"Digvijay"}).pretty()
{
    "_id": ObjectId("5fa25640b06734c11a24749e"),
    "name" : "Digvijay",
    "qualification": "PhD",
    "deptno": 2,
    "deptname": "IT",
    "designation": "HOD",
    "experience": 10,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2002-06-01T00:00:00Z"),
    "areaOfExpertise" : "ML"
}
>
> db.teachers.find({},{name:1,experience:1}).sort({experience:-1}).pretty()
```

```
{
    "_id": ObjectId("5fa25650b06734c11a2474a1"),
    "name": "Ram",
    "experience": 22
}
{
    "_id": ObjectId("5fa25632b06734c11a24749c"),
    "name": "Sarvadnya",
    "experience": 20
}
{
    "_id" : ObjectId("5fa25646b06734c11a24749f"),
    "name": "Dhananjay",
    "experience": 15
}
{
    "_id": ObjectId("5fa2564bb06734c11a2474a0"),
    "name": "Dipesh",
    "experience": 13
}
{
    "_id": ObjectId("5fa2562cb06734c11a24749b"),
    "name": "Paresh",
    "experience": 12
}
{
    "_id": ObjectId("5fa25639b06734c11a24749d"),
    "name": "Nilesh",
    "experience": 10
}
{
```

```
"_id": ObjectId("5fa25640b06734c11a24749e"),
    "name": "Digvijay",
    "experience": 10
}
{
    "_id": ObjectId("5fa2565cb06734c11a2474a3"),
    "name": "Anil",
    "experience": 8
}
{
    "_id": ObjectId("5fa25656b06734c11a2474a2"),
    "name": "Sham",
    "experience": 5
}
> db.teachers.save({_id:
ObjectId("5fa161eec75635cd6451dbc0"),name:"Sundar",qualification:"MTech",deptno:1,deptname:
"computer", designation: "assistant
professor",experience:14,salary:{basic:45000,TA:1000,DA:1000,HRA:2000},date_of_joining:new
Date("2006-06-01"), area Of Expertise: "DBMS"})
WriteResult({
    "nMatched": 0,
    "nUpserted": 1,
    "nModified": 0,
    "_id": ObjectId("5fa161eec75635cd6451dbc0")
})
> db.teachers.find({name:"Sundar"}).pretty()
{
```

```
"_id": ObjectId("5fa161eec75635cd6451dbc0"),
    "name": "Sundar",
    "qualification": "MTech",
    "deptno": 1,
    "deptname": "computer",
    "designation": "assistant professor",
    "experience": 14,
    "salary" : {
        "basic": 45000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2006-06-01T00:00:00Z"),
    "areaOfExpertise": "DBMS"
}
db.teachers.save({_id:ObjectId("5fa161eec75635cd6451dbc0"),name:"Sham",qualification:"ME",dep
tno:3,deptname:"ENTC",designation:"professor",experience:5,salary:{basic:25000,TA:1000,DA:1000,
HRA:2000},date_of_joining:new Date("2015-06-01"),areaOfExpertise:"Digital
electronics",appointment:"adhoc"})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
> db.teachers.deleteMany({appointment:"adhoc"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.teachers.find()
{ "_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "qualification" : "MTech",
"deptno": 1, "deptname": "computer", "designation": "assistant professor", "experience": 12,
"salary": { "basic": 20000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining":
ISODate("2008-06-01T00:00:00Z"), "areaOfExpertise": "DBMS" }
```

```
{ "_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "qualification" : "PhD",
"deptno": 1, "deptname": "computer", "designation": "HOD", "experience": 20, "salary": { "basic"
: 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date of joining" : ISODate("2000-06-
01T00:00:00Z"), "areaOfExpertise" : "CN" }
{ "_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "qualification" : "MTech",
"deptno": 1, "deptname": "computer", "designation": "assistant professor", "experience": 10,
"salary": { "basic": 18000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining":
ISODate("2010-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }
{ "_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "qualification" : "PhD",
"deptno": 2, "deptname": "IT", "designation": "HOD", "experience": 10, "salary": { "basic": 75000,
"TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2002-06-01T00:00:00Z"),
"areaOfExpertise": "ML" }
{ "_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "qualification" : "ME",
"deptno": 2, "deptname": "IT", "designation": "assistant professor", "experience": 15, "salary": {
"basic": 40000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("2005-06-
01T00:00:00Z"), "areaOfExpertise" : "AI" }
{ "_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "qualification" : "ME",
"deptno": 2, "deptname": "IT", "designation": "assistant professor", "experience": 13, "salary": {
"basic": 60000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2007-06-
01T00:00:00Z"), "areaOfExpertise" : "ML" }
{ "_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "qualification" : "PhD", "deptno"
: 3, "deptname" : "ENTC", "designation" : "HOD", "experience" : 22, "salary" : { "basic" : 80000, "TA" :
1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("1998-06-01T00:00:00Z"),
"areaOfExpertise": "Communication" }
{ "_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "qualification" : "ME", "deptno"
: 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 5, "salary" : { "basic" :
25000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date_of_joining": ISODate("2015-06-
01T00:00:00Z"), "areaOfExpertise": "Digital electronics" }
{ "_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "qualification" : "ME", "deptno" :
3, "deptname": "ENTC", "designation": "assistant professor", "experience": 8, "salary": { "basic":
40000, "TA": 1000, "DA": 1000, "HRA": 2000 }, "date of joining": ISODate("2012-06-
01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }
>
>
>
>
>
> db.teachers.find().sort({experience:1}).limit(3).pretty()
{
```

```
"_id": ObjectId("5fa25656b06734c11a2474a2"),
    "name": "Sham",
    "qualification": "ME",
    "deptno": 3,
    "deptname": "ENTC",
    "designation": "assistant professor",
    "experience": 5,
    "salary" : {
        "basic": 25000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2015-06-01T00:00:00Z"),
    "areaOfExpertise" : "Digital electronics"
}
{
    "_id": ObjectId("5fa2565cb06734c11a2474a3"),
    "name": "Anil",
    "qualification": "ME",
    "deptno": 3,
    "deptname": "ENTC",
    "designation": "assistant professor",
    "experience": 8,
    "salary" : {
        "basic": 40000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2012-06-01T00:00:00Z"),
```

```
"areaOfExpertise": "Digital electronics"
}
{
    "_id": ObjectId("5fa25640b06734c11a24749e"),
    "name": "Digvijay",
    "qualification": "PhD",
    "deptno": 2,
    "deptname" : "IT",
    "designation": "HOD",
    "experience": 10,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2002-06-01T00:00:00Z"),
    "areaOfExpertise": "ML"
}
> db.teachers.find({"designation":"HOD"}).sort({"salary.basic":-1}).pretty()
{
    "_id": ObjectId("5fa25650b06734c11a2474a1"),
    "name" : "Ram",
    "qualification": "PhD",
    "deptno": 3,
```

```
"deptname": "ENTC",
    "designation": "HOD",
    "experience": 22,
    "salary" : {
        "basic": 80000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("1998-06-01T00:00:00Z"),
    "areaOfExpertise" : "Communication"
}
{
    "_id": ObjectId("5fa25632b06734c11a24749c"),
    "name": "Sarvadnya",
    "qualification": "PhD",
    "deptno": 1,
    "deptname" : "computer",
    "designation": "HOD",
    "experience": 20,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2000-06-01T00:00:00Z"),
    "areaOfExpertise": "CN"
}
{
    "_id": ObjectId("5fa25640b06734c11a24749e"),
```

```
"name": "Digvijay",
    "qualification": "PhD",
    "deptno": 2,
    "deptname": "IT",
    "designation": "HOD",
    "experience": 10,
    "salary" : {
        "basic": 75000,
        "TA": 1000,
        "DA": 1000,
        "HRA": 2000
    },
    "date_of_joining": ISODate("2002-06-01T00:00:00Z"),
    "areaOfExpertise": "ML"
}
>
>
> db.teachers.find({},{name:1,salary:1}).sort({"salary.TA":1})
{ "_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "salary" : { "basic" : 20000,
"TA": 1000, "DA": 1000, "HRA": 2000 }}
{ "_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "salary" : { "basic" : 75000,
"TA": 1000, "DA": 1000, "HRA": 2000 } }
{ "_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "salary" : { "basic" : 18000, "TA"
: 1000, "DA" : 1000, "HRA" : 2000 } }
{ "_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "salary" : { "basic" : 75000,
"TA": 1000, "DA": 1000, "HRA": 2000 } }
{ "_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "salary" : { "basic" : 40000,
"TA": 1000, "DA": 1000, "HRA": 2000 } }
```

```
{ "_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "salary" : { "basic" : 60000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } } 
{ "_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "salary" : { "basic" : 80000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } } 
{ "_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "salary" : { "basic" : 25000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } } 
{ "_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }
```

// Outputs:











