

1. create company DB with following collection

1. Employee
2. Department

Perform following MongoDB operations

1.

```
db.createCollection("Employee")
```

```
db.createCollection("Department")
```

```
db.Employee.insert({_id: "1", Name: "Adam", Role: "Software Engineer"})
```

```
db.Employee.save({_id: "2", Name: "Eve", Role: "Software Tester"})
```

```
db.Employee.insert({_id: "3"})
```

```
db.Employee.update({_id: "3"}, { $set: { Name: "Alice", Role: "Data Scientist" } }, { upsert: true })
```

```
db.Employee.insert({_id: "4"})
```

```
db.Employee.update({_id: "4"}, { $set: { Name: "Bob", Role: "Data Analyst" } }, { upsert: false })
```

```
db.Employee.insert({_id: "5", Name: "Dave", Role: "IT Support"})
```

```
db.Department.insert({_id: "1", Name: "management"})
```

```
db.Department.insert({_id: "2", Name: "HR"})
```

db. Department.insert({_id: 3})

db. Department.update({_id: 3}, { \$set: {Name:

"Testing" }}, {upsert: true})

db. Department.insert({_id: "4"})

db. Department.update({_id: "4"}, { \$set: {Name: "D(0)"},

{upsert: false})

db. Department.save({_id: 5, Name: "designing"})

db. Employee.update({_id: "3"}, { \$set: {secondary

Role: "Data Engineer" }}, {upsert: true})

db. Employee.update({_id: "3"}, { \$unset: {secondary

Role: "Data Engineer" }}, {upsert: true})

db. Employee.find()

db. Department.find()

db. Employee.update({_id: "1"}, { \$set: {DeptNum:

1000 }}, {upsert: true})

db. Employee.update({_id: "2"}, { \$set: {DeptNum: 1001 }},

{upsert: true})

db. Employee.update({_id: "3"}, { \$set: {DeptNum: 1002 }},

{upsert: true})

```
db.Employee.update({_id: "4"}, {$set: {DeptNum: 1003}},  
  {upsert: true})
```

```
db.Employee.update({_id: "5"}, {$set: {DeptNum: 1004}},  
  {upsert: true})
```

```
db.Employee.find({DeptNum: {$gt: 1001, $lt: 1003}},  
  {name: 1, DeptNum: 1, -id: 0})
```

```
db.Employee.find({name: "A1"})
```

```
-> update  
db.Employee.update({_id: "1"}, {$set: {Age: "45"}},  
  {upsert: true})
```

```
db.Employee.update({_id: "2"}, {$set: {Age: "23"}},  
  {upsert: true})
```

```
db.Employee.update({_id: "3"}, {$set: {Age: "39"}},  
  {upsert: true})
```

```
db.Employee.update({_id: "4"}, {$set: {Age: "25"}},  
  {upsert: true})
```

```
db.Employee.update({_id: "5"}, {$set: {Age: "32"}},  
  {upsert: true})
```

```
db.Employee.find({Age: {$gt: "30"}})
```