

```
> db.createCollection("Employee")
{ "ok" : 1 }
> db.createCollection("Department")
{ "ok" : 1 }
```

```
> db.Employee.insert({_id:1,Name:"Sai Dileep",Age:21,Gender:"M",Salary:"100000",Dnum:101})
WriteResult({ "nInserted" : 1 })
> db.Employee.insert({_id:2,Name:"Ram",Age:22,Gender:"M",Salary:"110000",Dnum:102})
WriteResult({ "nInserted" : 1 })
> db.Employee.insert({_id:3,Name:"Sravani",Age:22,Gender:"F",Salary:"100000",Dnum:103})
WriteResult({ "nInserted" : 1 })
> db.Employee.insert({_id:4,Name:"Sita",Age:21,Gender:"F",Salary:"120000",Dnum:104})
WriteResult({ "nInserted" : 1 })
> db.Employee.update({_id:5,Name:"Ravi",Age:23,Gender:"M",Salary:125000},{ $set:{Dnum:105}}, {upsert:true});
WriteResult({ "nMatched" : 0, "nUpserted" : 1, "nModified" : 0, "_id" : 5 })
```

```
> db.Employee.update({_id:4},{ $set:{Dnum:105}},{upsert:false});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Employee.find()
{ "_id" : 1, "Name" : "Sai Dileep", "Age" : 21, "Gender" : "M", "Salary" : "100000", "Dnum" : 101 }
{ "_id" : 2, "Name" : "Ram", "Age" : 22, "Gender" : "M", "Salary" : "110000", "Dnum" : 102 }
{ "_id" : 3, "Name" : "Sravani", "Age" : 22, "Gender" : "F", "Salary" : "100000", "Dnum" : 103 }
{ "_id" : 4, "Name" : "Sita", "Age" : 21, "Gender" : "F", "Salary" : "120000", "Dnum" : 105 }
{ "_id" : 5, "Age" : 23, "Gender" : "M", "Name" : "Ravi", "Salary" : 125000, "Dnum" : 105 }
```

```
> db.Department.insert({_id:1,DName:"Accounts",Dnum:101,NumberOfEmp:50,NumberOfProjects:20})
WriteResult({ "nInserted" : 1 })
> db.Department.insert({_id:2,DName:"Marketing",Dnum:102,NumberOfEmp:40,NumberOfProjects:15})
WriteResult({ "nInserted" : 1 })
> db.Department.insert({_id:3,DName:"Software",Dnum:103,NumberOfEmp:30,NumberOfProjects:12})
WriteResult({ "nInserted" : 1 })
> db.Department.insert({_id:4,DName:"Hardware",Dnum:104,NumberOfEmp:10,NumberOfProjects:8})
WriteResult({ "nInserted" : 1 })
```

```
> db.Department.update({_id:5,DName:"Production",Dnum:105,NumberofEmp:11},{ $set:{NumberofProjects:7}}, {upsert:true});
WriteResult({ "nMatched" : 0, "nUpserted" : 1, "nModified" : 0, "_id" : 5 })
```

```
> db.Department.update({_id:5},{ $set:{NumberofProjects:10}}, {upsert:false});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Department.find();
{ "_id" : 1, "DName" : "Accounts", "Dnum" : 101, "NumberofEmp" : 50, "NumberofProjects" : 20 }
{ "_id" : 2, "DName" : "Marketing", "Dnum" : 102, "NumberofEmp" : 40, "NumberofProjects" : 15 }
{ "_id" : 3, "DName" : "Software", "Dnum" : 103, "NumberofEmp" : 30, "NumberofProjects" : 12 }
{ "_id" : 4, "DName" : "Hardware", "Dnum" : 104, "NumberofEmp" : 10, "NumberofProjects" : 8 }
{ "_id" : 5, "DName" : "Production", "Dnum" : 105, "NumberofEmp" : 11, "NumberofProjects" : 10 }
```

```
> db.Employee.update({_id:4},{ $unset:{Gender:"F"}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Employee.find()
{ "_id" : 1, "Name" : "Sai Dileep", "Age" : 21, "Gender" : "M", "Salary" : "100000", "Dnum" : 101 }
{ "_id" : 2, "Name" : "Ram", "Age" : 22, "Gender" : "M", "Salary" : "110000", "Dnum" : 102 }
{ "_id" : 3, "Name" : "Sravani", "Age" : 22, "Gender" : "F", "Salary" : "100000", "Dnum" : 103 }
{ "_id" : 4, "Name" : "Sita", "Age" : 21, "Salary" : "120000", "Dnum" : 105 }
{ "_id" : 5, "Age" : 23, "Gender" : "M", "Name" : "Ravi", "Salary" : 125000, "Dnum" : 105 }
```

```
> db.Employee.find({Age:{$gt:21}})
{ "_id" : 2, "Name" : "Ram", "Age" : 22, "Gender" : "M", "Salary" : "110000", "Dnum" : 102 }
{ "_id" : 3, "Name" : "Sravani", "Age" : 22, "Gender" : "F", "Salary" : "100000", "Dnum" : 103 }
{ "_id" : 5, "Age" : 23, "Gender" : "M", "Name" : "Ravi", "Salary" : 125000, "Dnum" : 105 }
> db.Employee.find({Name:/^R/})
{ "_id" : 2, "Name" : "Ram", "Age" : 22, "Gender" : "M", "Salary" : "110000", "Dnum" : 102 }
{ "_id" : 5, "Age" : 23, "Gender" : "M", "Name" : "Ravi", "Salary" : 125000, "Dnum" : 105 }
> db.Employee.find({Dnum:{$gt:101,$lt:103}}, {Name:1, Dnum:1})
{ "_id" : 2, "Name" : "Ram", "Dnum" : 102 }
> db.Employee.find({Dnum:{$gt:101,$lt:104}}, {Name:1, Dnum:1})
{ "_id" : 2, "Name" : "Ram", "Dnum" : 102 }
{ "_id" : 3, "Name" : "Sravani", "Dnum" : 103 }
> db.Employee.update({_id:4}, {$set:{Gender:"F"}});
```