

1.

```
> show dbs
admin      0.000GB
collegeDb  0.000GB
company    0.000GB
config     0.000GB
local      0.000GB
myDb       0.000GB
> use company
switched to db company
> show collections
Department
Employee
```

2

```
> db.Employee.save({_id:2,Name:"Anna",Position:"Clerk",Experience:5,Qualification:"BTech"})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Employee.update({_id:4,Name:"Preethi",Position:"Div Manager",Experience:5,Qualification:"BTech"},{$set:{Experience:3}},{upsert:true});
WriteResult({ "nMatched" : 0, "nUpserted" : 1, "nModified" : 0, "_id" : 4 })
> db.Employee.insert({_id:5,Name:"Adh",Position:"Manager",Experience:5,Qualification:"BTech"});
WriteResult({ "nInserted" : 1 })
> db.Employee.find().pretty()
```

```
> db.Employee.update({_id:3,Name:"Pro",Position:"Div Manager",Experience:5,Qualification:"BTech"},{$set:{Experience:3}},{upsert:false});
```

3

```
> db.Employee.update({_id:1},{$set:{Location:"Vadodara"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

4.

```
> db.Employee.update({_id:1},{$unset:{Location:"Vadodara"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

5.

```
> db.Employee.find({_id:{$lt: 5, $gt:1}});
{ "_id" : 2, "Name" : "Anna", "Position" : "Clerk", "Experience" : 5, "Qualification" : "BTech" }
{ "_id" : 4, "Experience" : 3, "Name" : "Preethi", "Position" : "Div Manager", "Qualification" : "BTech" }
```

6 & 7

```
> db.Employee.find({Name:/^A/})
> use company
switched to db company
> db.Employee.find({Name:/^A/})
{ "_id" : 1, "Name" : "Anjali", "Position" : "Manager", "Experience" : 5, "Qualification" : "BTech" }
{ "_id" : 2, "Name" : "Anna", "Position" : "Clerk", "Experience" : 5, "Qualification" : "BTech" }
{ "_id" : 5, "Name" : "Adh", "Position" : "Manager", "Experience" : 5, "Qualification" : "BTech" }
{ "_id" : 6, "Name" : "Ayu", "Position" : "Manager", "Experience" : 5, "Qualification" : "BTech" }
> db.Employee.update({_id:8,Name:"Pro",Position:"Div Manager",Experience:5,Qualification:"BTech"},{$set:{Age:37}},{upsert:true});
WriteResult({ "nMatched" : 0, "nUpserted" : 1, "nModified" : 0, "_id" : 8 })
>
> db.Employee.find({Age:{$gt:30}})
{ "_id" : 8, "Experience" : 5, "Name" : "Pro", "Position" : "Div Manager", "Qualification" : "BTech", "Age" : 37 }
> db.createCollection("Student")
```