Program 2

Query1

```
use company

db.createCollection("Employee")
db.createCollection("Department")

db.Employee.insert( {
    _id:1,
    Ename:'Ajay',
    Salary:'12000',
    dept:'Manager',
    Age:'35',
    dnum:'1001'
})

db.Employee.insert( {
    _id:2,
    Ename:'Asha',
    Salary:'13000',
    dept:'Supervisor',
    Age:'29',
    dnum:'1002'
})

db.Employee.update(
    {_id:3,Ename:'Akash',Salary:'12500',Age:'30',dnum:'1003'},{$set:{dept:'Developer'}},{upsert:true});

db.Employee.update(
    {_id:10,Ename:'Akhil',Salary:'12500'},{$set:{dept:'Developer'}},{upsert:false});

db.Employee.update(
    {_id:4,Ename:'Tilak',Salary:'12500',Age:'32',dnum:'1003'},{$set:{dept:'Developer'}},{upsert:true});

 db.Employee.save(
    {_id:5,Ename:'Poorna',Salary:'12600',dept:'Supervisor',Age:'23',dnum:'1002'});

 db.Employee.find().pretty()

 db.Employee.find({Ename:'Poorna'}).pretty();
```

robo3t

Employee   0.001 sec.

	_id	Ename	Salary	dept	Age	dnum	PhoneNum
1	1.0	Ajay	12000	Manager	35	1001	
2	2.0	Asha	13000	Supervisor	29	1002	
3	3.0	Akash	12500	Developer	30	1003	
4	4.0	Tilak	12500	Developer	32	1003	
5	5.0	Poorna	12600	Supervisor	23	1002	9980678080

New Connection | localhost:27017 | Company

```
db.Department.insert({
    _id:10,
    Dname:'Manager',
    number:'1001',
    location:'Basavangudi'})

db.Department.insert({
    _id:11,
    Dname:'Supervisor',
    number:'1002',
    location:'Jayanagar'})

db.Department.update(
    {_id:12,Dname:'Supervisor',number:'1002'},{$set:{location:'Girinagar'}},{upsert:'true'});

db.Department.update(
    {_id:20,Dname:'Supervisor',number:'2020'},{$set:{location:'Girinagar'}},{upsert:'false'});

db.Department.save(
    {_id:14,Dname:'Programmer',number:'1003',location:'jayanagar'});

db.Department.find({})
```

robo3t

Department 🕐 0.001 sec.

	_id	Dname	number	location
1	10.0	Manager	1001	Basavangudi
2	11.0	Supervisor	1002	Jayanagar
3	12.0	Supervisor	1002	
4	20.0	Supervisor	2020	Girinagar
5	14.0	Programmer	1003	jayanagar

```
#Query2

db.Employee.update(
{_id:5},{$set:{PhoneNum:'9980678080'}})

db.Employee.find({_id:5}).pretty()

#Query3

db.Department.find({_id:12}).pretty()
db.Department.update({_id:12},{$unset:{location:'Girinagar'}});
```
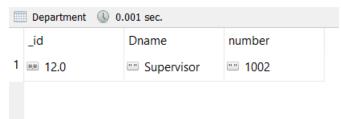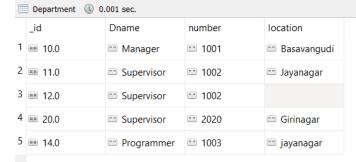
robo3t

Employee 🕐 0.001 sec.

	_id	Ename	Salary	dept	Age	dnum	PhoneNum
1	5.0	Poorna	12600	Supervisor	23	1002	9980678080

robo3t

Department 🕐 0.001 sec.

	_id	Dname	number
1	📟 12.0	"" Supervisor	"" 1002

```
#Query4

db.Employee.find({})
db.Department.find({})
```

robo3t

Employee 🕐 0.001 sec.

	_id	Ename	Salary	dept	Age	dnum	PhoneNum
1	📟 1.0	"" Ajay	"" 12000	"" Manager	"" 35	"" 1001	
2	📟 2.0	"" Asha	"" 13000	"" Supervisor	"" 29	"" 1002	
3	📟 3.0	"" Akash	"" 12500	"" Developer	"" 30	"" 1003	
4	📟 4.0	"" Tilak	"" 12500	"" Developer	"" 32	"" 1003	
5	📟 5.0	"" Poorna	"" 12600	"" Supervisor	"" 23	"" 1002	"" 9980678080

Department 🕐 0.001 sec.

	_id	Dname	number	location
1	📟 10.0	"" Manager	"" 1001	"" Basavangudi
2	📟 11.0	"" Supervisor	"" 1002	"" Jayanagar
3	📟 12.0	"" Supervisor	"" 1002	
4	📟 20.0	"" Supervisor	"" 2020	"" Girinagar
5	📟 14.0	"" Programmer	"" 1003	"" jayanagar

```
#Query5
db.Employee.find({dnum:{"$gt":'1001', "$lt":'1005'}},{Ename:true,dnum:true});
```

Employee	🕐 0.001 sec.		
_id	Ename	dnum	
1 ##,## 2.0	"" Asha	"" 1002	
2 ##,## 3.0	"" Akash	"" 1003	
3 ##,## 4.0	"" Tilak	"" 1003	
4 ##,## 5.0	"" Poorna	"" 1002	

```
#Query6
db.Employee.find({Ename:{$regex:'^A'}})
```

Employee	🕐 0.001 sec.				
_id	Ename	Salary	dept	Age	dnum
1 ##,## 1.0	"" Ajay	"" 12000	"" Manager	"" 35	"" 1001
2 ##,## 2.0	"" Asha	"" 13000	"" Supervisor	"" 29	"" 1002
3 ##,## 3.0	"" Akash	"" 12500	"" Developer	"" 30	"" 1003

```
#Query7
 db.Employee.find({Age:{"$gt":'30'}}).pretty();
```

Employee	🕐 0.001 sec.				
_id	Ename	Salary	dept	Age	dnum
1 ##,## 1.0	"" Ajay	"" 12000	"" Manager	"" 35	"" 1001
2 ##,## 4.0	"" Tilak	"" 12500	"" Developer	"" 32	"" 1003