

```

    ObjectId("6371268d55011610fc41edb7"),
    db.teachers.find().pretty()
{
  "_id" : ObjectId("6371257555011610fc41edb4"),
  "Tname" : "Archana",
  "dno" : 2,
  "dname" : "MECH",
  "exp" : 6,
  "salary" : 26000,
  "doj" : 0.0004997501249375312
}
{
  "_id" : ObjectId("6371268d55011610fc41edb5"),
  "Tname" : "Sayali",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 3,
  "salary" : 20000,
  "doj" : 0.0004997501249375312
}
{
  "_id" : ObjectId("6371268d55011610fc41edb6"),
  "Tname" : "Gauri",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 6,
  "salary" : 27000,
  "doj" : 0.00033316674995835413
}
{
  "_id" : ObjectId("6371268d55011610fc41edb7"),
  "Tname" : "Reshma",
  "dno" : 3,
  "dname" : "ELEC",
  "exp" : 6,
  "salary" : 22000,
  "doj" : 0.0004997501249375312
}
}

```

Q2

```

> db.teachers.find({dname:'COMP'}).pretty()
{
  "_id" : ObjectId("6371268d55011610fc41edb5"),
  "Tname" : "Sayali",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 3,
  "salary" : 20000,
  "doj" : 0.0004997501249375312
}
{
  "_id" : ObjectId("6371268d55011610fc41edb6"),
  "Tname" : "Gauri",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 6,
  "salary" : 27000,
  "doj" : 0.00033316674995835413
}
>

```

Q3

```

> db.teachers.find(({$or:[{dname:'COMP'}, {dname:'EATC'}]})).pretty()
{
  "_id" : ObjectId("6371268d55011610fc41edb5"),
  "Tname" : "Sayali",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 3,
  "salary" : 20000,
  "doj" : 0.0004997501249375312
}
{
  "_id" : ObjectId("6371268d55011610fc41edb6"),
  "Tname" : "Gauri",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 6,
  "salary" : 27000,
  "doj" : 0.00033316674995835413
}
{
  "_id" : ObjectId("6371274055011610fc41edb8"),
  "Tname" : "Sahil",
  "dno" : 4,
  "dname" : "EATC",
  "exp" : 6,
  "salary" : 22000,
  "doj" : 0.0004997501249375312
}
>

```

Q4

```
> db.teachers.find({salary:{$gte : 21000},$or:[{dname:'COMP'},{dname:'E&TC'}]}).pretty()
{
  "_id" : ObjectId("6371268d55011610fc41edb6"),
  "Tname" : "Gauri",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 6,
  "salary" : 27000,
  "doj" : 0.00033316674995835413
}
{
  "_id" : ObjectId("6371274055011610fc41edb8"),
  "Tname" : "Sahil",
  "dno" : 4,
  "dname" : "E&TC",
  "exp" : 6,
  "salary" : 22000,
  "doj" : 0.0004997501249375312
}
```

Q5

```
> db.teachers.find({$or:[{Tname:'Sahil'},{dname:'COMP'}]}).pretty()
{
  "_id" : ObjectId("6371268d55011610fc41edb5"),
  "Tname" : "Sayali",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 3,
  "salary" : 20000,
  "doj" : 0.0004997501249375312
}
{
  "_id" : ObjectId("6371268d55011610fc41edb6"),
  "Tname" : "Gauri",
  "dno" : 1,
  "dname" : "COMP",
  "exp" : 6,
  "salary" : 27000,
  "doj" : 0.00033316674995835413
}
{
  "_id" : ObjectId("6371274055011610fc41edb8"),
  "Tname" : "Sahil",
  "dno" : 4,
  "dname" : "E&TC",
  "exp" : 6,
  "salary" : 22000,
  "doj" : 0.0004997501249375312
}
```

Q6

```
db.teachers.update(
  {tname:'Sahil'},
  {$set:{
    'Tname':'Sahil',
    'dno':4,
    'dname':'E&TC',
    'exp':10,
    'salary':22000,
    'doj':1/1/2001
  }}, {upsert:true}
)
```

Q7

```
> db.teachers.updateMany({dname:'E&TC'},{$set:{dname:'Comp'}})
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
> db.teachers.find().pretty()
```

Q8

```
> db.teachers.find({},{'dno':0,'dname':0,doj:0,salary:0}).pretty()
[
  {
    "_id" : ObjectId("6371257555011610fc41edb4"),
    "Tname" : "Archana",
    "exp" : 6
  },
  {
    "_id" : ObjectId("6371268d55011610fc41edb7"),
    "Tname" : "Reshma",
    "exp" : 6
  },
  {
    "_id" : ObjectId("6371274055011610fc41edb8"),
    "Tname" : "Sahil",
    "exp" : 6
  },
  {
    "_id" : ObjectId("63712d1ee28862c7efd0f13e"),
    "tname" : "Sahil",
    "Tname" : "Sahil",
    "exp" : 10
  },
  { "_id" : ObjectId("63712e7ee6a68834d79b550e"), "Tname" : "Rajesh" },
  { "_id" : ObjectId("63712edae6a68834d79b550f"), "Tname" : "Rajesh" }
]
```

Q9

```
> db.teachers.save({'Tname':'Rajesh',dno:1,dname:'computer'})
WriteResult({ "nInserted" : 1 })
```

Q10

```
{ "_id" : ObjectId("63712edae6a68834d79b550f"), "dname" : "Arts" }
> db.teachers.save({'_id' : ObjectId("63712edae6a68834d79b550f"),Tname:'Rajesh',dno:25,dname:'Arts'})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
db.teachers.find().pretty()
```

Q11

```
> db.teachers.deleteMany(
... {dname:'COMP'}
... )
{ "acknowledged" : true, "deletedCount" : 2 }
```

Q12

```
> db.teachers.aggregate($sort:{Tname:1})
{ "_id" : ObjectId("6371257555011610fc41edb4"), "Tname" : "Archana", "dno" : 2, "dname" : "MECH", "exp" : 6, "salary" : 26000, "doj" : 0.0004997501249375312 }
{ "_id" : ObjectId("63712e7ee6a68834d79b550e"), "Tname" : "Rajesh", "dno" : 1, "dname" : "computer" }
{ "_id" : ObjectId("63712edae6a68834d79b550f"), "Tname" : "Rajesh", "dno" : 25, "dname" : "Arts" }
{ "_id" : ObjectId("6371268d55011610fc41edb7"), "Tname" : "Reshma", "dno" : 3, "dname" : "ELEC", "exp" : 6, "salary" : 22000, "doj" : 0.0004997501249375312 }
{ "_id" : ObjectId("6371274055011610fc41edb8"), "Tname" : "Sahil", "dno" : 4, "dname" : "Comp", "exp" : 6, "salary" : 22000, "doj" : 0.0004997501249375312 }
{ "_id" : ObjectId("63712d1ee28862c7efd0f13e"), "Tname" : "Sahil", "Tname" : "Sahil", "dname" : "Comp", "dno" : 4, "doj" : 0.0004997501249375312, "exp" : 10, "salary" : 22000 }

> db.teachers.find().sort({Tname:1})
{ "_id" : ObjectId("6371257555011610fc41edb4"), "Tname" : "Archana", "dno" : 2, "dname" : "MECH", "exp" : 6, "salary" : 26000, "doj" : 0.0004997501249375312 }
{ "_id" : ObjectId("63712e7ee6a68834d79b550e"), "Tname" : "Rajesh", "dno" : 1, "dname" : "computer" }
{ "_id" : ObjectId("63712edae6a68834d79b550f"), "Tname" : "Rajesh", "dno" : 25, "dname" : "Arts" }
{ "_id" : ObjectId("6371268d55011610fc41edb7"), "Tname" : "Reshma", "dno" : 3, "dname" : "ELEC", "exp" : 6, "salary" : 22000, "doj" : 0.0004997501249375312 }
{ "_id" : ObjectId("6371274055011610fc41edb8"), "Tname" : "Sahil", "dno" : 4, "dname" : "Comp", "exp" : 6, "salary" : 22000, "doj" : 0.0004997501249375312 }
{ "_id" : ObjectId("63712d1ee28862c7efd0f13e"), "Tname" : "Sahil", "Tname" : "Sahil", "dname" : "Comp", "dno" : 4, "doj" : 0.0004997501249375312, "exp" : 10, "salary" : 22000 }
>
```