

>_MONGOSH



```
> db.student.find({department:'IT'}, {name:1,cgpa:1,_id:0});
```

```
< {  
  name: 'Aditya Patel',  
  cgpa: 8.7  
}  
{  
  name: 'Vikas Nair',  
  cgpa: 8.4  
}  
{  
  name: 'Karan Gupta',  
  cgpa: 8.9  
}  
{  
  name: 'Dev Mishra',  
  cgpa: 8.6  
}
```

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```
> db.student.find({cgpa:{$gte:8.5}}, {name:1, roll_no:1, department:1, _id:0})
```

```
< {
```

```
  roll_no: 'CSE2101',
  name: 'Aarav Sharma',
  department: 'CSE'
```

```
}
```

```
{
```

```
  roll_no: 'CSE2104',
  name: 'Simran Kaur',
  department: 'CSE'
```

```
}
```

```
{
```

```
  roll_no: 'IT2105',
  name: 'Aditya Patel',
  department: 'IT'
```

```
}
```

```
{
```

```
  roll_no: 'CSE2201',
  name: 'Neha Jain',
  department: 'CSE'
```

```
}
```

```
{
```

```
  roll_no: 'CSE2301',
  name: 'Meera Joshi',
  department: 'CSE'
```

```
}
```

```
{
```

```
  roll_no: 'IT2304',
  name: 'Karan Gupta',
```

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> db.student.find({department:{\$in:['ECE','ME']}})

```
< {
  _id: ObjectId('684abe8fcd0011894ec81058'),
  roll_no: 'ECE2102',
  name: 'Priya Verma',
  year: 2,
  department: 'ECE',
  cgpa: 8.2,
  email: 'priya.ece@univ.edu'
}
{
  _id: ObjectId('684abe8fcd0011894ec81059'),
  roll_no: 'ME2103',
  name: 'Rahul Singh',
  year: 2,
  department: 'ME',
  cgpa: 7.8,
  email: 'rahul.me@univ.edu'
}
{
  _id: ObjectId('684abe8fcd0011894ec8105d'),
  roll_no: 'ECE2202',
  name: 'Rohan Mehta',
  year: 3,
  department: 'ECE',
  cgpa: 8.3,
  email: 'rohan.ece@univ.edu'
}
```

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```
> db.student.find({year:4,cgpa:{$gt:8}}, {name:1,cgpa:1,_id:0})
```

```
< [
```

```
  {
    name: 'Meera Joshi',
    cgpa: 9.3
  }
```

```
  {
    name: 'Ankit Bansal',
    cgpa: 8.1
  }
```

```
  {
    name: 'Karan Gupta',
    cgpa: 8.9
  }
]
```

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```
> db.student.find({$and: [{ department: {$ne:"CSE"}},{cgpa:{$lte:7.5} } ]})
```

```
< {  
  _id: ObjectId('684abe8fcd0011894ec81062'),  
  roll_no: 'ME2303',  
  name: 'Pooja Yadav',  
  year: 4,  
  department: 'ME',  
  cgpa: 7.5,  
  email: 'pooja.me@univ.edu'  
}
```

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```
> db.student.find().sort({cgpa:-1}).limit(3);
```

```
< {
  _id: ObjectId('684abe8fcd0011894ec81060'),
  roll_no: 'CSE2301',
  name: 'Meera Joshi',
  year: 4,
  department: 'CSE',
  cgpa: 9.3,
  email: 'meera.cse@univ.edu'
}
{
  _id: ObjectId('684abe8fcd0011894ec8105c'),
  roll_no: 'CSE2201',
  name: 'Neha Jain',
  year: 3,
  department: 'CSE',
  cgpa: 9.1,
  email: 'neha.cse@univ.edu'
}
{
  _id: ObjectId('684abe8fcd0011894ec8105a'),
  roll_no: 'CSE2104',
  name: 'Simran Kaur',
  year: 2,
  department: 'CSE',
  cgpa: 9,
  email: 'simran.cse@univ.edu'
}
```

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> db.student.find().sort({cgpa:-1}).limit(3).skip(3)

```
< {
  _id: ObjectId('684abe8fcd0011894ec81063'),
  roll_no: 'IT2304',
  name: 'Karan Gupta',
  year: 4,
  department: 'IT',
  cgpa: 8.9,
  email: 'karan.it@univ.edu'
}
{
  _id: ObjectId('684abe8fcd0011894ec81068'),
  roll_no: 'CSE2405',
  name: 'Tanya Roy',
  year: 1,
  department: 'CSE',
  cgpa: 8.7,
  email: 'tanya.cse@univ.edu'
}
{
  _id: ObjectId('684abe8fcd0011894ec8105b'),
  roll_no: 'IT2105',
  name: 'Aditya Patel',
  year: 2,
  department: 'IT',
  cgpa: 8.7,
  email: 'aditya.it@univ.edu'
}
```

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> db.student.updateMany({department:'CSE'}, {\$inc:{cgpa:0.2}})

< {

acknowledged: true,

insertedId: null,

matchedCount: 6,

modifiedCount: 6,

upsertedCount: 0

}

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```
> db.student.updateMany({cgpa:{$lt:7.0}},{$set:{department:'probation'}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
```

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```
> db.student.updateMany({department: "ME"},{$unset:{email:""}});
```

```
< {
```

```
  acknowledged: true,
  insertedId: null,
  matchedCount: 5,
  modifiedCount: 0,
  upsertedCount: 0
```

```
}
```

```
> db.student.find({department:"ME"})
```

```
< {
```

```
  _id: ObjectId('684abe8fcd0011894ec81059'),
  roll_no: 'ME2103',
  name: 'Rahul Singh',
  year: 2,
  department: 'ME',
  cgpa: 7.8
```

```
}
```

```
{
```

```
  _id: ObjectId('684abe8fcd0011894ec8105e'),
  roll_no: 'ME2203',
  name: 'Sneha Reddy',
  year: 3,
  department: 'ME',
  cgpa: 7.6
```

```
}
```

```
{
```

```
  _id: ObjectId('684abe8fcd0011894ec81062'),
  roll_no: 'ME2303',
  name: 'Pooja Yadav',
```

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```
> db.student.updateMany({}, {$rename:{ "cgpa": "gpa"}})
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 20,
  modifiedCount: 0,
  upsertedCount: 0
}
```

```
> db.student.find()
```

```
< {
  _id: ObjectId('684abe8fcd0011894ec81057'),
  roll_no: 'CSE2101',
  name: 'Aarav Sharma',
  year: 2,
  department: 'CSE',
  email: 'aarav.cse@univ.edu',
  gpa: 8.7
}
{
  _id: ObjectId('684abe8fcd0011894ec81058'),
  roll_no: 'ECE2102',
  name: 'Priya Verma',
  year: 2,
  department: 'ECE',
  email: 'priya.ece@univ.edu',
  gpa: 8.2
}
{
  _id: ObjectId('684abe8fcd0011894ec81059'),
  roll_no: 'CSE2103',
  name: 'Ravi Kumar',
  year: 2,
  department: 'CSE',
  email: 'ravi.cse@univ.edu',
  gpa: 7.5
}
```

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```
> db.students.replaceOne({ roll_no: "CSE2104" }, { roll_no: "CSE2104", name: "Simran Kaur", year: 3, department: "AI", cgpa: 9.4, email: "simran.ai@univ.edu" })
```

```
< {
```

```
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
```

```
}
```