

# MongoDB Queries Answer

1. `db.students.find( { department: "IT" }, { _id: 0, name: 1, cgpa: 1 } )`

Output :

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

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

Output:

```
{ "name": "Aarav Sharma", "roll_no": "CSE2101", "department": "CSE" },  
{ "name": "Simran Kaur", "roll_no": "CSE2104", "department": "CSE" },  
{ "name": "Aditya Patel", "roll_no": "IT2105", "department": "IT" },  
{ "name": "Neha Jain", "roll_no": "CSE2201", "department": "CSE" },  
{ "name": "CSE2301", "roll_no": "Meera Joshi", "department": "CSE" },  
{ "name": "Karan Gupta", "roll_no": "IT2304", "department": "IT" },  
{ "name": "Dev Mishra", "roll_no": "IT2404", "department": "IT" },  
{ "name": "Tanya Roy", "roll_no": "CSE2405", "department": "CSE" }
```

3. `db.students.find( { department: { $in: ["ECE", "ME"] } } )`

```
4. db.students.find( { year: 4, cgpa: { $gt: 8.0 } }, { _id: 0, name: 1, cgpa: 1 } )
```

Output:

```
{ "name": "Meera Joshi", "cgpa": 9.3 },  
{ "name": "Ankit Bansal", "cgpa": 8.1 },  
{ "name": "Karan Gupta", "cgpa": 8.9 }
```

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

Output: {

```
  _id: ObjectId('68493af59cff656c94336e05'),  
  roll_no: 'ME2303',  
  name: 'Pooja Yadav',  
  year: 4,  
  department: 'ME',  
  cgpa: 7.5,  
  email: 'pooja.me@univ.edu'  
}
```

6. `db.students.find().sort({ cgpa: -1 }).limit(3)`

Output: [

{ "name": "Meera Joshi", "cgpa": 9.3 },

{ "name": "Neha Jain", "cgpa": 9.1 },

{ "name": "Simran Kaur", "cgpa": 9.0 }

]

7. `db.students.find().sort({ cgpa: -1 }).skip(3).limit(3)`

Output: [

{ "name": "Karan Gupta", "cgpa": 8.9 },

{ "name": "Tanya Roy", "cgpa": 8.7 },

{ "name": "Aditya Patel", "cgpa": 8.7 }

]

8. `db.students.updateMany({ department: "CSE" }, { $inc: { cgpa: 0.2 } })`

9. `db.students.updateMany( { cgpa: { $lt: 7.0 } }, { $set: { department: "Probation" } })`

10. `db.students.updateMany({ department: "ME" }, { $unset: { email: "" } })`

```
11. db.students.updateMany({}, { $rename: { "cgpa": "gpa" } })
```

```
12. db.students.replaceOne(  
  { roll_no: "CSE2104" },  
  {  
    roll_no: "CSE2104",  
    name: "Simran Kaur",  
    year: 3,  
    department: "CSE",  
    cgpa: 9.5,  
    email: "simran.new@univ.edu"  
  }  
)
```