MongoDB Queries

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"
 }
)
```