```
1. Names and CGPAs of all students from the "IT" department:
db.students.find(
  { department: "IT" },
  { _id: 0, name: 1, cgpa: 1 }
2. Students with CGPA ≥ 8.5 (showing name, roll number, department):
db.students.find(
  { cgpa: { $gte: 8.5 } },
  { _id: 0, name: 1, roll_no: 1, department: 1 }
3. Students from either "ECE" or "ME" using $in:
db.students.find(
  { department: { $in: ["ECE", "ME"] } }
4. 4th year students with CGPA > 8.0 (name and CGPA only):
db.students.find(
  { year: 4, cgpa: { $gt: 8.0 } },
  { _id: 0, name: 1, cgpa: 1 }
5. Students not in "CSE" and CGPA ≤ 7.5 using $and and $ne:
db.students.find(
  { $and: [ { department: { $ne: "CSE" } }, { cgpa: { $lte: 7.5 } } ] }
6. Top 3 students with the highest CGPA (all departments):
db.students.find()
  .sort({ cgpa: -1 }) // Sort by CGPA descending
  .limit(3)
7. Next 3 students after the top 3 (for pagination):
db.students.find()
  .sort({ cgpa: -1 }) // Same descending order
  .skip(3)
                        // Skip the top 3
  .limit(3)
8. Increase CGPA by 0.2 for all students in the "CSE" department :
db.students.updateMany(
  { department: "CSE" },
  { $inc: { cgpa: 0.2 } }
9. Set department to "Probation" for students with CGPA < 7.0 :
db.students.updateMany(
  { cgpa: { $1t: 7.0 } },
  { $set: { department: "Probation" } }
)
```

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10. Remove the email field from all students in the "ME" department :
db.students.updateMany(
 { department: "ME" },
 { $unset: { email: "" } }
11. Rename the field cgpa to gpa for all students :
db.students.updateMany(
  {},
 { $rename: { "cgpa": "gpa" } }
12. Replace the entire document of the student with roll number "CSE2104" :
db.students.replaceOne(
  { roll_no: "CSE2104" },
  {
   roll_no: "CSE2104",
    name: "Simran Kaur",
   year: 3,
    department: "CSE",
    gpa: 9.4,
   email: "simrankaur.cse@univ.edu"
)
```