1. Find the names and CGPAs of all students from the "IT" department.
db.students.find({department:"IT"},{_id:0,name:1,cgpa:1})
2. List all students whose CGPA is greater than or equal to 8.5. Show only their name, roll number, and department.
db.students.find({cgpa:{\$gte:8.5}},{_id:0,name:1,roll_no:1,department:1})
3. Find students who are in either the "ECE" or "ME" department using \$in.
db.students.find({department:{\$in:["ECE","ME"]}})
4. Get the name and CGPA of students who are in the 4th year and have a CGPA greater than 8.0.
db.students.find({year:4,cgpa:{\$gt:8.0}},{_id:0,name:1,cgpa:1})
5. Find all students who are not in the "CSE" department and have a CGPA less than or equal to 7.5 using \$and and \$ne.
db.students.find({\$and:[{department:{\$ne:"CSE"}},{cgpa:{\$lte:7.5}}]})
6. Display the top 3 students with the highest CGPA across all departments.
db.students.find().sort({cgpa:-1}).limit(3)

7. Show the next 3 students after skipping the top 3 based on CGPA (pagination).
db.students.find().sort({cgpa:-1}).skip(3).limit(3)
8. Increase the CGPA by 0.2 for all students in the "CSE" department.
db.students.updateMany({ department: "CSE" },{ \$inc: { cgpa: 0.2 } })
9. Set the department to "Probation" for all students with CGPA less than 7.0
db.students.updateMany({cgpa:{\$lt:7.0}},{\$set:{department:"Probation"}})
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"}})