

Name: Vartul

Section: C

1. db.students.find({ department: "IT" }, { name: 1, cgpa: 1, _id: 0 })
2. db.students.find({ cgpa: { \$gte: 8.5 } }, { name: 1, roll_no: 1, department: 1, _id: 0 })
3. db.students.find({ department: { \$in: ["ECE", "ME"] } })
4. db.students.find({ year: 4, cgpa: { \$gt: 8.0 } }, { name: 1, cgpa: 1, _id: 0 })
5. db.students.find({ \$and: [{ department: { \$ne: "CSE" } }, { cgpa: { \$lte: 7.5 } }] })
6. db.students.find().sort({ cgpa: -1 }).limit(3)
7. db.students.find().sort({ cgpa: -1 }).skip(3).limit(3)
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: 2,
 department: "AI",
 cgpa: 9.4,
 email: "simran.ai@univ.edu"
 }
)