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Section = C

ASSIGNMENT - 1

(Practical MongoDB Questions with Answers)

Find / Query Operations

1. `db.students.find({ department: 'IT' }, { _id: 0, name: 1, cgpa: 1 })`
2. `db.students.find({ cgpa: { $gte: 8.5 } }, { _id: 0, name: 1, roll_no: 1, department: 1 })`
3. `db.students.find({ department: { $in: ['ECE', 'ME'] } })`
4. `db.students.find({ year: 4, cgpa: { $gt: 8.0 } }, { _id: 0, name: 1, cgpa: 1 })`
5. `db.students.find({ $and: [{ department: { $ne: 'CSE' } }, { cgpa: { $lte: 7.5 } }] }, { _id: 0, name: 1 })`

Sort / Pagination

6. `db.students.find({}, { _id: 0, name: 1 }).sort({ cgpa: -1 }).limit(3)`
7. `db.students.find({}, { _id: 0, name: 1 }).sort({ cgpa: -1 }).skip(3).limit(3)`

Update Operations

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: "" } })`

Bonus (Advanced)

11. `db.students.updateMany({}, { $rename: { "cgpa": "gpa" } })`
12. `db.students.replaceOne({ roll_no: "CSE2104" }, { roll_no: "CSE2104", name: "New Name", year: 3, department: "CSE", gpa: new_gpa, email: "New.email" })`