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ASSIGNMENT – 1

Sec: C

(Practical MongoDB Questions)

Solutions:-

❖ Find / Query Operations

1. `db.students.find({_id:0,name:1,cgpa:1 },
{ department:'IT'})`
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-**

```
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" })
```