ASSIGNMENT 1

Mongo DB

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Find / Query Operations:

1. db.students.find(

    {department: "IT"} ,

    {name: 1 , cgpa: 1}

)

2. db.students.find(

    {cgpa: {$gte: 8.5}} ,

    {roll_no: 1 ,name: 1 , department: 1}

)

3. db.students.find(

    {

    department: {$in: ["ECE","ME"]}

    }

)

4. db.students.find(

    {year: 4 , cgpa: {$gt: 8.0}},

```
                {name:1 , cgpa: 1}

        )

5.      db.students.find(

                {$and : [{department: {$ne: "CSE"}},

        {cgpa: {$lte: 7.5}}]}

        )
```

Sort / Pagination

```
6.      db.students.find(

                {}

        ).sort({cgpa: -1}).limit(3);


7.      db.students.find(

                {}

        ).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: "Virat Kohli",
                department: "CSE",
                year: 3,
                gpa: 8.5
            }
        )
```