Below there are some queries done in mongoDB shell

```
> use education
< switched to db education
education> // Insert a single student document
          db.students.insertOne({
            "regno": "2021IT001",
            "name": "Kolins",
            "age": 25,
            "degree": "IT",
            "gpa": 3.2,
            "gender": "Male",
            "skills": [
              "Java",
              "MatLap",
              "MySQL"
            ]
          });
```

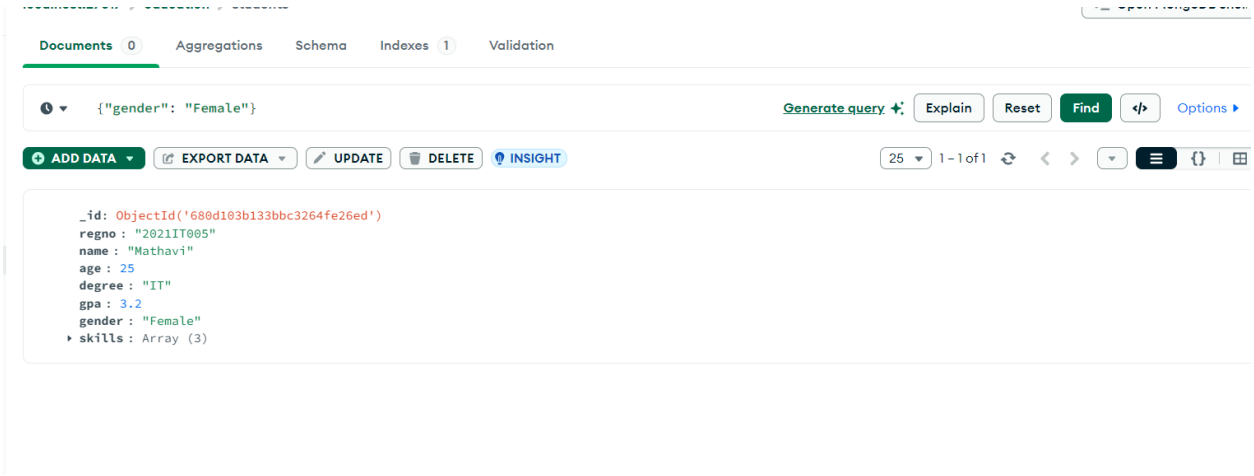
```
        // Insert multiple student documents
        db.students.insertMany([
          {
            "regno": "2021IT004",
            "name": "Kamal",
            "age": 25,
            "degree": "CSC",
            "gpa": 3.2,
            "gender": "Male",
            "skills": [
              "Java",
              "MatLap",
              "MySQL"
            ]
          },
          {
            "regno": "2021IT005",
            "name": "Mathavi",
            "age": 25,
            "degree": "IT",
            "gpa": 3.2,
            "gender": "Female",
            "skills": [
              "Java",
              "MatLap",
              "python"
            ]
          }
```

```
// Find all female students
db.students.find({ "gender": "Female" });

/*
Find all students whose age is greater than 25
$gt = greater than
*/
db.students.find({ age: { $gt: 25 } });

/*
Find all students who have either "Java" or "MatLap" as a skill
$in = matches any value in the given array
*/
db.students.find({ skills: { $in: ["Java", "MatLap"] } });

/*
Find all IT students and sort them by GPA in ascending order (lowest to highest)
1 = ascending order
*/
db.students.find({ 'degree': 'IT' }).sort({ 'gpa': 1 });

/*
Find female students in IT degree and sort by GPA in ascending order
*/
db.students.find({ 'degree': 'IT', 'gender': 'Female' }).sort({ 'gpa': 1 });
```

```
/*
Find female students in IT degree and sort by GPA in ascending order
*/
db.students.find({ 'degree': 'IT', 'gender': 'Female' }).sort({ 'gpa': 1 });

/*
Sort all students by GPA in descending order and by name in ascending order
-1 = descending order, 1 = ascending order
*/
db.students.find().sort({ gpa: -1, name: 1 });
```

Let see how to do this in MongoDB compass

This is the way how we use find option



Next we can see more options