# EXPERIMENT NO. 7 - MongoDB

| | |
|---|---|
| **Name of Student** | **Anuprita Mhapankar** |
| **Class Roll No** | **28** |
| **D.O.P.** | **13/03/2025** |
| **D.O.S.** | **20/03/2025** |
| **Sign and Grade** | |

**AIM : To study CRUD operations in MongoDB**

## OVERVIEW OF TASKS PERFORMED :

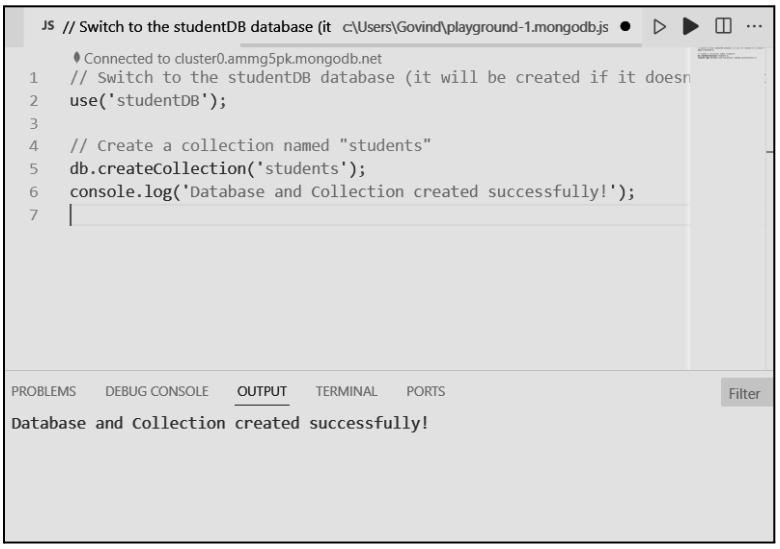
The experiment involves creating a **student database** for the IT department with fields **Name, Roll No, and Class Name**. A single student record was inserted, followed by multiple student entries at once. Queries were performed to **filter students by class**, retrieve students with a **specific roll number**, update a student's roll number, and delete a specific student's entry.

Additionally, **RESTful APIs** were implemented using **Node.js, Express, and Mongoose** to manage student data. The server was connected to **MongoDB**, and endpoints were created to **retrieve all students, get details of a student by ID, add a new student, update student details, and delete a student by ID**. The student schema included attributes **name, age, and grade** for data storage.

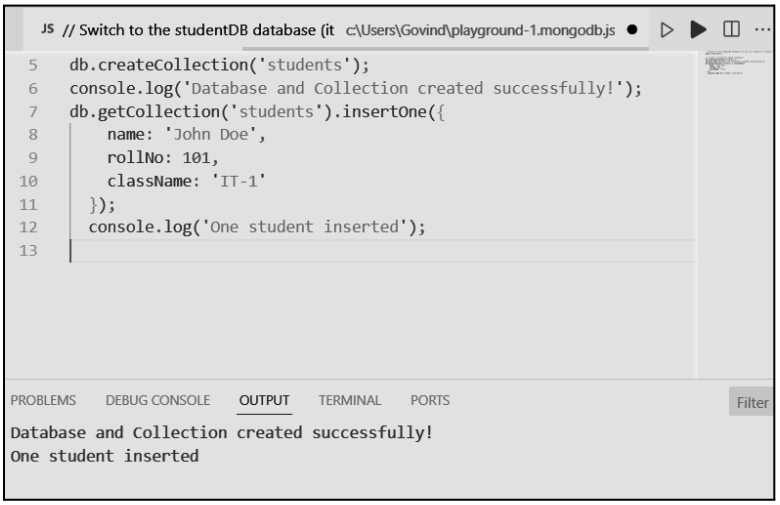
**GITHUB LINK -** https://github.com/Anuprita2022-26/WebX_Exp7

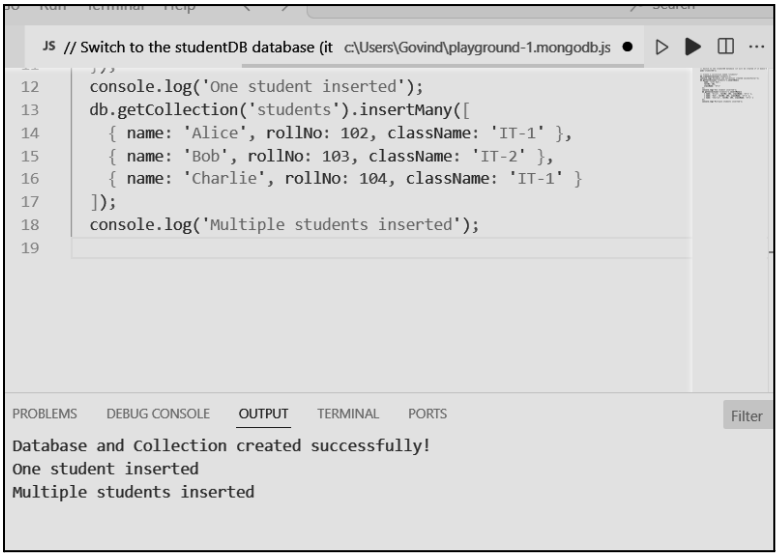
## OUTPUT

1. **Create a database to store student details of IT Department**

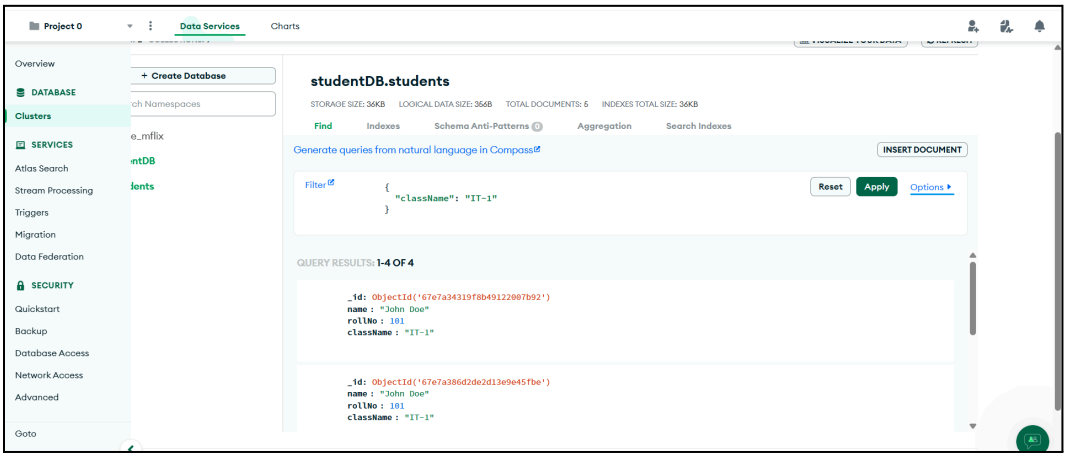


## a) Insert Single & multiple student records

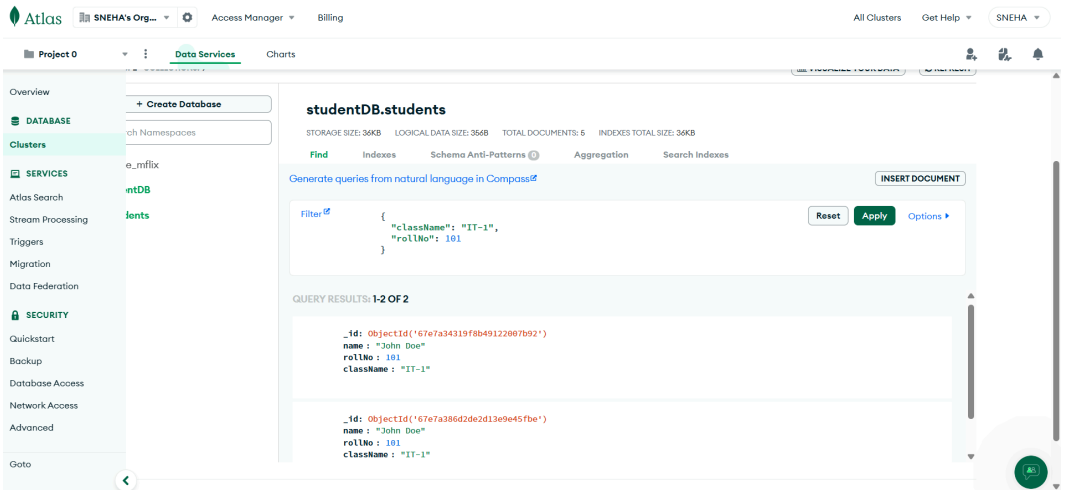


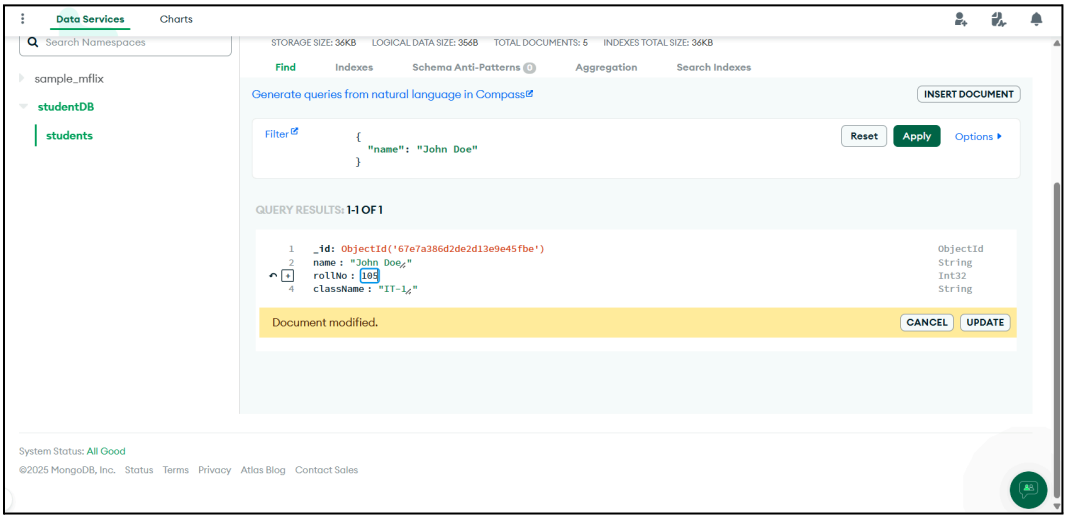

## b) Display Students for a Particular Class



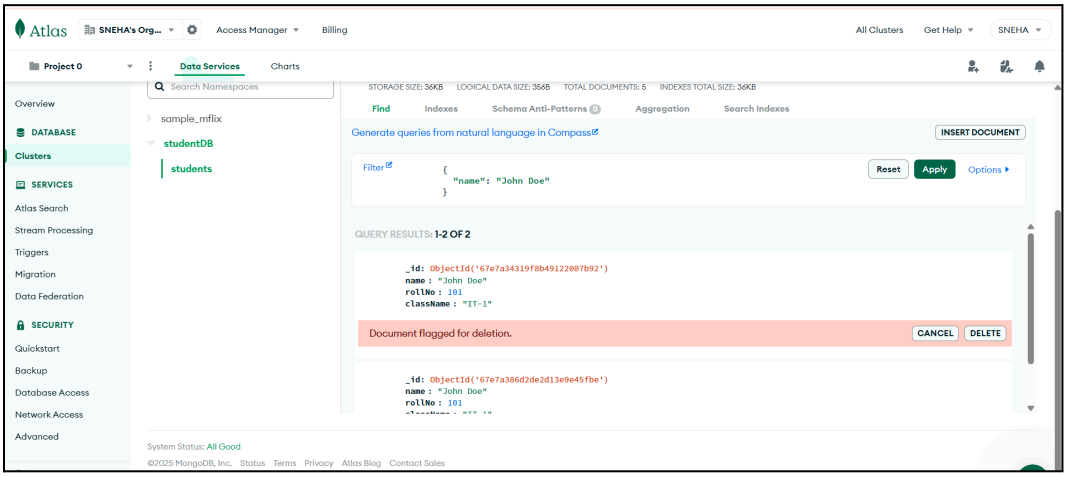
## c) Display Student of a Specific Roll Number in a Class




## d) Change the Roll Number of a Student




## e) Delete Entries of a Particular Student




## CONCLUSION

In this experiment, we successfully performed CRUD operations in **MongoDB** and implemented a **RESTful API** using **Node.js, Express, and Mongoose**. We learned how to create, read, update, and delete student records both via **MongoDB shell commands** and **API endpoints**.