
🎓 Exercise: Student Enrollments System

📘 **Database:** `campusdb`

📂 **Collection:** `enrollments`

📝 **Tasks (Do not include solutions)**

1️⃣ Use a new database called `campusdb`

2️⃣ Create a collection `enrollments` and insert 4 student documents. Each document should include:

- `name` (string)
- `studentId` (number)
- `courses` (array of strings)
- `address` (sub-document with `city`, `state`)
- `feesPaid` (boolean)

Ensure:

- At least 1 student is from `"Delhi"`
- At least 2 students are enrolled in `"Python"`
- At least 1 student has `feesPaid: false`

3️⃣ Display all student records

4️⃣ Find all students enrolled in `"Python"`

5️⃣ Find students from Delhi who have not paid fees

6️⃣ Add a new course `"AI Fundamentals"` to a specific student's `courses` array

7️⃣ Update the city of a specific student to `"Mumbai"`

8️⃣ Set `feesPaid` to `true` for all students from `"Delhi"`

9️⃣ Remove `"Java"` course from any student who has it

🔟 Delete all students who have no courses enrolled (i.e., `courses: []`)

🧭 Step 1: Switch to the Database

```
use campusdb
```

✅ Step 2: Insert Student Documents into `enrollments`

```
db.enrollments.insertMany([
  {
    name: "Ananya Verma",
    studentId: 101,
    courses: ["Python", "Java"],
    address: { city: "Delhi", state: "Delhi" },
    feesPaid: true
  },
  {
    name: "Rohan Mehta",
    studentId: 102,
    courses: ["Python", "AI"],
    address: { city: "Bangalore", state: "Karnataka" },
    feesPaid: false
  },
  {
    name: "Sneha Kapoor",
    studentId: 103,
    courses: [],
    address: { city: "Hyderabad", state: "Telangana" },
    feesPaid: true
  },
  {
    name: "Imran Shaikh",
    studentId: 104,
    courses: ["Data Science", "Java"],
    address: { city: "Delhi", state: "Delhi" },
    feesPaid: false
  }
])
```