Progressive Education Society’s

**MODERN COLLEGE OF ENGINEERING, Pune -05.**

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

MCA Department

**PRACTICAL SUBMISSION RECORD- A.Y. 2024-25**

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| **Class: FYMCA Div: A**  **Semester: II** | **Course Code: MCA01554**  **Course Name: Laboratory Practice - II** | | **Batch: F2** |
| **Name: Pranav Raju Malwatkar** | | **Roll No: 51037** | |
| **CO No:** **CO517C.3** | | **Assignment No: 2** | |

**Program Title: 2) Apply MongoDB Queries using CRUD operations.**

**Program Code:**

// Create: Insert a student into the 'students' collection

db.students.insertOne({

name: "Amit",

age: 20,

courses: ["Math", "Physics"]

});

// Create: Insert another student

db.students.insertOne({

name: "Priya",

age: 22,

courses: ["Chemistry", "Biology"]

});

// Read: Find all students

db.students.find().pretty();

// Read: Find students with age 22

db.students.find({ age: 22 }).pretty();

// Update: Update Priya's age from 22 to 23

db.students.updateOne(

{ name: "Priya" },

{ $set: { age: 23 } }

);

// Read: Find updated student "Priya"

db.students.find({ name: "Priya" }).pretty();

// Delete: Remove student Amit

db.students.deleteOne({ name: "Amit" });

// Read: Find all students to check deletion

db.students.find().pretty();

**Output:**

1. **Create** (Insert Amit):

{ "acknowledged": true, "insertedId": ObjectId("...") }

1. **Create** (Insert Priya):

{ "acknowledged": true, "insertedId": ObjectId("...") }

1. **Read** (Find all students):

[

{ "\_id": ObjectId("..."), "name": "Amit", "age": 20, "courses": ["Math", "Physics"] },

{ "\_id": ObjectId("..."), "name": "Priya", "age": 22, "courses": ["Chemistry", "Biology"] }

]

1. **Read** (Find students with age 22):

[

{ "\_id": ObjectId("..."), "name": "Priya", "age": 22, "courses": ["Chemistry", "Biology"] }

]

1. **Update** (Update Priya's age to 23):

{ "acknowledged": true, "matchedCount": 1, "modifiedCount": 1 }

1. **Read** (Find updated Priya):

[

{ "\_id": ObjectId("..."), "name": "Priya", "age": 23, "courses": ["Chemistry", "Biology"] }

]

1. **Delete** (Remove Amit):

{ "acknowledged": true, "deletedCount": 1 }