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**ROLL NO : 24**

**BATCH : B2**

**COURSE: DBMS PRACTICAL**

**Assignment No :12**

**Problem Statement:-**

**Study of Open Source NOSQL Database: MongoDB , Installation of MongoDB Create database in MongoDB , Create a collection named student , Insert 5 records with field (Student\_ number, Name, Address , contact\_number , subjects and percentage ). 1) Insert 1 more document in collection with additional field of hobbies. 2) Display information of all students 3) Display details of students who have secured more than 70 percentage 4) Update percentage of student whose Student \_ number is 5 5) Delete document of ‘Rohan’ from database 6) Demonstrate use of Save() Method**

**Solution :**

### 1. Create database in MongoDB:

**use school**

### 2. Create a collection named student:

**db.createCollection("student")**

### 3. Insert 5 records with fields (Student\_number, Name, Address, contact\_number, subjects, and percentage):

**db.student.insertMany([**

**{ "Student\_number": 1, "Name": "John", "Address": "123 Main St", "contact\_number": "123-456-7890", "subjects": ["Math", "Science"], "percentage": 85 },**

**{ "Student\_number": 2, "Name": "Alice", "Address": "456 Elm St", "contact\_number": "987-654-3210", "subjects": ["History", "English"], "percentage": 75 },**

**{ "Student\_number": 3, "Name": "Bob", "Address": "789 Oak St", "contact\_number": "456-789-0123", "subjects": ["Geography", "Art"], "percentage": 60 },**

**{ "Student\_number": 4, "Name": "Emma", "Address": "101 Pine St", "contact\_number": "789-012-3456", "subjects": ["Music", "Physical Education"], "percentage": 90 },**

**{ "Student\_number": 5, "Name": "Rohan", "Address": "111 Cedar St", "contact\_number": "321-654-9870", "subjects": ["Computer Science", "Physics"], "percentage": 80 }**

**])**

### 4. Insert 1 more document in the collection with an additional field of hobbies:

**db.student.insertOne({ "Student\_number": 6, "Name": "Sara", "Address": "222 Maple St", "contact\_number": "654-987-0123", "subjects": ["Chemistry", "Biology"], "percentage": 95, "hobbies": ["Reading", "Traveling"] })**

### 5. Display information of all students:

**db.student.find({})**

### 6. Display details of students who have secured more than 70 percent:

**db.student.find({ "percentage": { $gt: 70 } })**

### 7. Update the percentage of the student whose Student\_number is 5:

**db.student.updateOne({ "Student\_number": 5 }, { $set: { "percentage": 85 } })**

### 8. Delete the document of 'Rohan' from the database:

**db.student.deleteOne({ "Name": "Rohan" })**

### 9. Demonstrate the use of the save() method:

**var student = db.student.findOne({ "Name": "John" })**

**student.Address = "456 Pine St"**

**db.student.save(student)**