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Student Performance Tracker
Context:
A university wants to track students' marks across various subjects using MongoDB.
Collection: students
Sample Document:
"roll no": 101,
"name": "Ankita Desai",
"department": "IT",
"marks": [
{ "subject": "DBMS", "score": 78 },
{ "subject": "AI", "score": 89 },
{ "subject": "OS", "score": 91 }
}
Tasks:
1. Insert at least 5 student documents with varying subjects and marks.
2. Retrieve all students with more than 85 in "AI".
3. Update the DBMS score of student roll_no: 101 to 85.
4. Delete a student with roll no: 105.
5. Use aggregation to find the average score in OS across all students.
-- Step 1: Create & Use Database
use university
-- Step 2: Create the students Collection (Automatically created on insert)
db.createCollection("students")
-- Step 3: Insert 5 Student Documents
db.students.insertMany([
  {
    roll no: 101,
    name: "Ankita Desai",
    department: "IT",
    marks: [
      { subject: "DBMS", score: 78 },
      { subject: "AI", score: 89 },
      { subject: "OS", score: 91 }
    1
  },
    roll_no: 102,
    name: "Rahul Mehta",
    department: "CSE",
    marks: [
      { subject: "DBMS", score: 88 },
      { subject: "AI", score: 92 },
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{ subject: "OS", score: 85 }
  },
    roll_no: 103,
    name: "Priya Nair",
    department: "ECE",
    marks: [
      { subject: "DBMS", score: 67 },
      { subject: "AI", score: 72 },
      { subject: "OS", score: 79 }
 },
    roll_no: 104,
    name: "Suresh Kumar",
    department: "IT",
    marks: [
      { subject: "DBMS", score: 91 },
      { subject: "AI", score: 86 },
      { subject: "OS", score: 88 }
  },
    roll_no: 105,
    name: "Neha Patel",
    department: "CSE",
    marks: [
      { subject: "DBMS", score: 84 },
      { subject: "AI", score: 68 },
      { subject: "OS", score: 80 }
  }
1)
-- Step 4: Find Students with AI > 85
db.students.find({
  marks: {
    $elemMatch: { subject: "AI", score: { $gt: 85 } }
  }
})
-- Step 5: Update DBMS Score of Roll No 101 to 85
db.students.updateOne(
  { roll_no: 101, "marks.subject": "DBMS" },
  { $set: { "marks.$.score": 85 } }
)
-- Step 6: Delete Student with Roll No 105
db.students.deleteOne({ roll_no: 105 })
```