* **Create a new database called student\_management**

use student\_management

* Create a collection called students in the student\_management database

db.createCollection("students")

* **Insert at least five student records into the students collection. Each record should have the following fields:**

db.students.insertMany([

{student\_id:101,name:"Akshay kumar",age:23,department:"Computer Science",courses:["HTML","DATABASE SYSTEM"],grade:"A"},

{student\_id:102,name:"Salman khan",age:24,departement:"Information Technology",courses:["Btech","BCOM"],grade:"E"},

{student\_id:103,name:"Shahid kapoor",age:20,department:"Hotel Manager",courses:["Bcom","BSC"],grade:"A"},

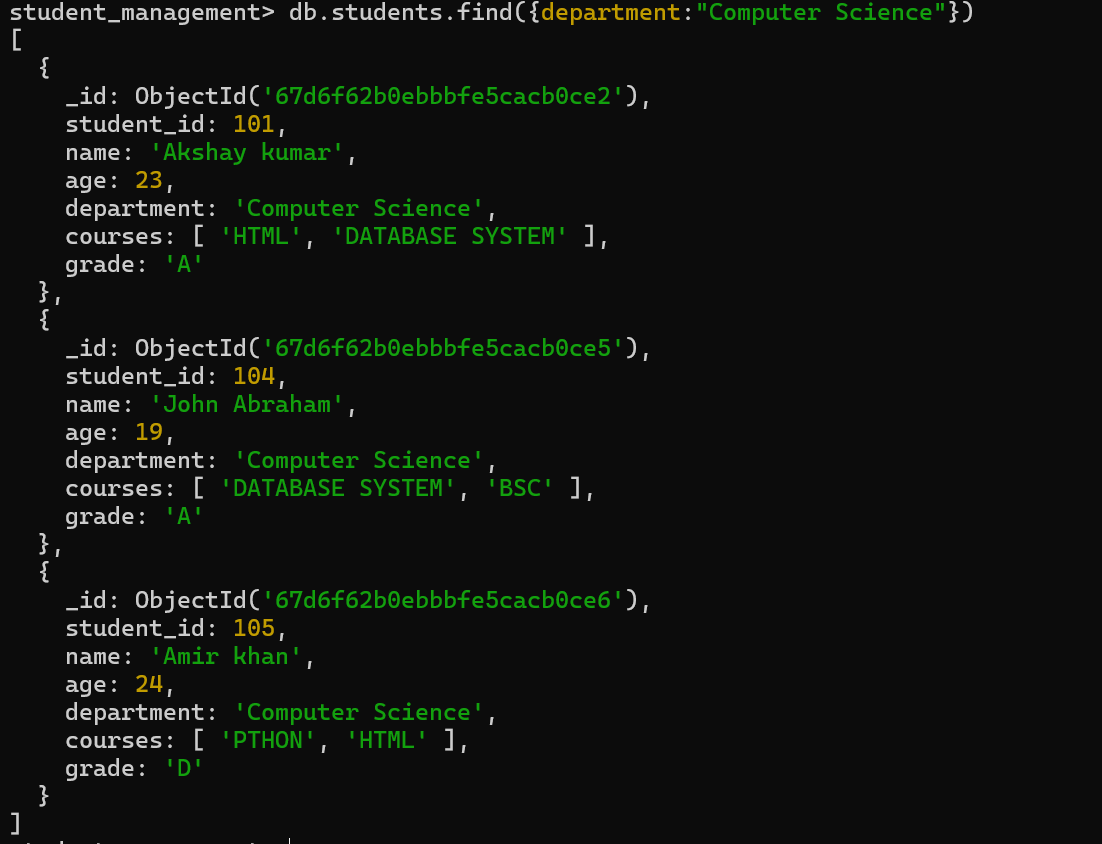
{student\_id:104,name:"John Abraham",age:19,department:"Computer Science",courses:["DATABASE SYSTEM","BSC"],grade:"A"},

{student\_id:105,name:"Amir khan",age:24,department:"Computer Science",courses:["PTHON","HTML"],grade:"D"}

])

**#1 Retrieve all students who are in the "Computer Science" department.**

db.students.find({department:"Computer Science"})

****

**#2 Retrieve students who have an age greater than 21.**

db.students.find({age:{$gt:21}})



**#3 Retrieve students who are taking the "Database Systems" course.**

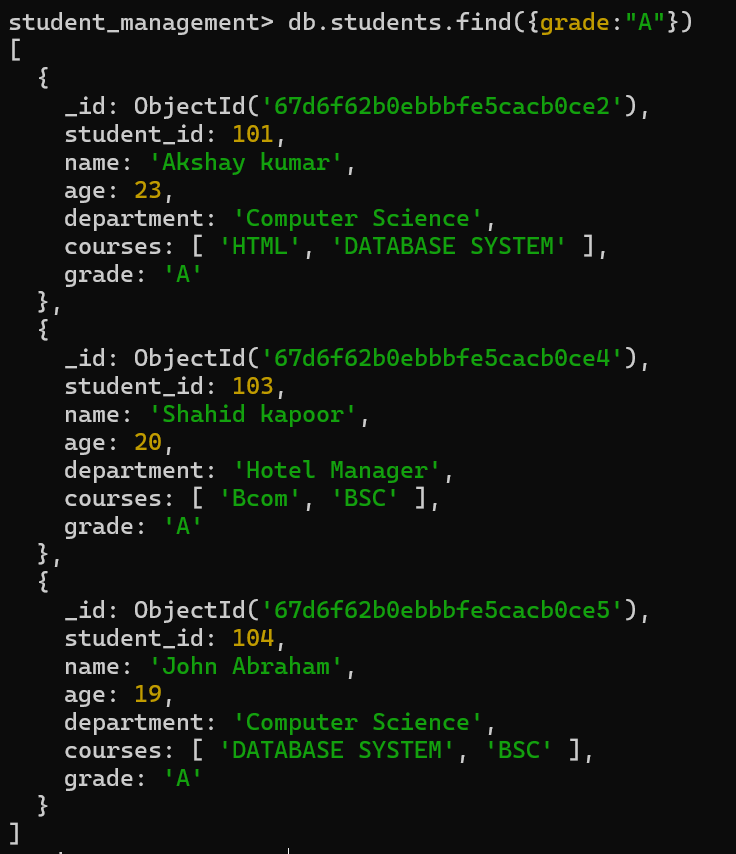
db.students.find({courses:"DATABASE SYSTEM"})

A computer screen shot of a computer code

AI-generated content may be incorrect.

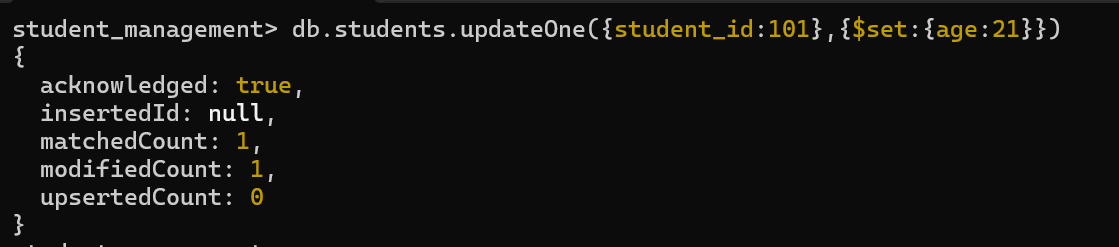
**#4 Retrieve students with a grade of "A".**

db.students.find({grade:"A"})



#5 **Update the age of a student with student\_id 101 to 21.**

db.students.updateOne({student\_id:101},{$set:{age:21}})

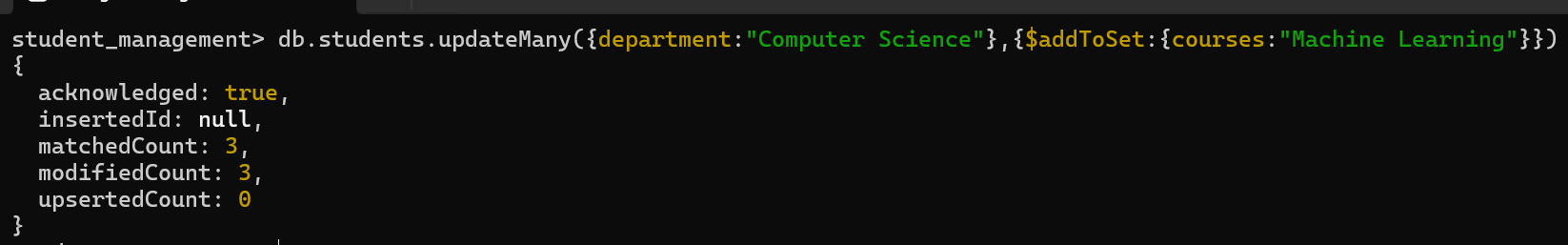


A computer screen with text

AI-generated content may be incorrect.

**#6 Add a new course, "Machine Learning", to the courses array for students in the "Computer Science" department.**

db.students.updateMany({department:"Computer Science"},{$addToSet:{courses:"Machine Learning"}})

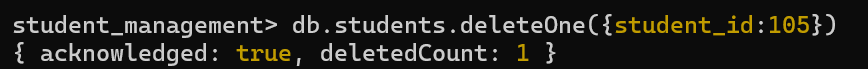


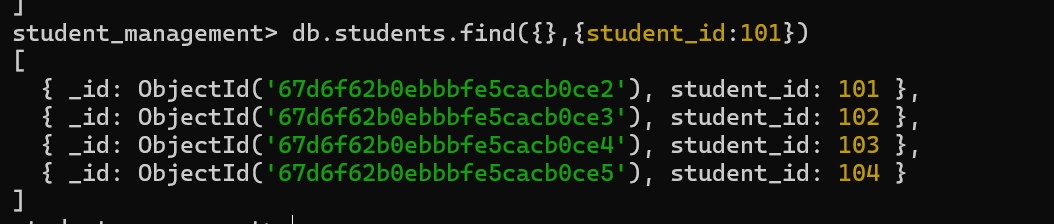
**A screenshot of a computer

AI-generated content may be incorrect.**

**#7 Delete a student record with student\_id 105.**

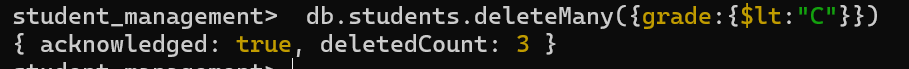
db.student.deleteOne({student\_id:105})

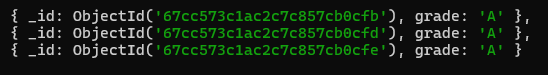




**#8 Delete all students who have a grade lower than "C".**

db.students.deleteMany({grade:{$lt:"C"}})



****