

## MongoDB CRUD Questions

### Create & Read Operations

1. Create a database: Write a command to create and switch to a database named school.
2. Create a collection: Create a collection called students in the school database.
3. Insert a single student: Insert one document: { name: "Amit", age: 20, course: "BCA" }
4. Insert multiple students: Insert these documents at once: { name: "Riya", age: 22 }, { name: "Karan", age: 21 }, { name: "Pooja", age: 23 }
5. View all students: Write a query to show all documents from the students collection.
6. Find students with age 22: Use find() to filter by age.
7. Get only one student document: Use findOne() to get a student with name Karan.
8. Insert a student with nested document: Insert { name: "Sneha", age: 24, address: { city: "Surat", pincode: 394101 } }
9. Retrieve only the city of Sneha: Use projection with findOne().
10. Insert students with skills array: Insert { name: "Manoj", skills: ["c", "python"] } and { name: "Sara", skills: ["java", "js"] }
11. Find students having "python" skill: Use find() with array matching.
12. Create a collection called courses.
13. Insert multiple courses: { cname: "MongoDB", duration: 30 }, { cname: "NodeJS", duration: 45 }, { cname: "ReactJS", duration: 40 }
14. Show all courses.
15. Find one course with duration 40 using findOne().
16. Insert a student with multiple nested fields: { name: "Vikas", age: 27, contact: { phone: "9876543210", email: "vikas@mail.com" } }
17. Extract only the email of Vikas using findOne().
18. Insert a document into new collection "faculty": { fname: "Dr. Sharma", subject: "Maths" }
19. View documents in faculty.
20. Find a student who does NOT have an age field.