🧪 Exercise: Faculty Database CRUD Practice

◆ **Use Case: You are managing faculty information for a university.**

📋 **Tasks (Run each step in `mongosh`)**

1️⃣ **Switch to a new database called `facultydb`**

2️⃣ **Create a collection named `professors` and insert the following 3 professors:**

- A professor teaching "Mathematics", with 10 years of experience, and is currently active.
- A professor teaching "Physics", with 5 years of experience, and is currently inactive.
- A professor teaching "Chemistry", with 8 years of experience, and is currently active.

Each document should contain:

- `name` (string)
- `subject` (string)
- `experience` (number, in years)
- `active` (boolean)

3️⃣ **Find all professors in the `professors` collection**

4️⃣ **Find only the professors who are active**

5️⃣ **Update the experience of the "Physics" professor to 6 years**

6️⃣ **Mark the "Physics" professor as active**

7️⃣ **Delete the professor who teaches "Chemistry"**

```
db.professors.insertMany([
  {
    name: "Dr. Kavita Iyer",
    subject: "Mathematics",
    experience: 10,
    active: true
  },
  {
    name: "Dr. Nikhil Sinha",
    subject: "Physics",
    experience: 5,
    active: false
  },
  {
    name: "Dr. Meera Das",
    subject: "Chemistry",
    experience: 8,
    active: true
  }
])
```