

1. Switch to a new database called facultydb.

```
use facultydb
```

2. Create a collection named professors and insert the following 3 professors

```
db.createCollection("professors")

db.proessors.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 }
])
```

3. Find all professors in the professors collection

```
db.proessors.find()
```

4. Find only the professors who are active

```
db.proessors.find({active: true})
```

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

```
db.proessors.updateOne(
  {subject: "Physics"},
  {$set: {experience: 6}}
)
```

6. Mark the "Physics" professor as active

```
db.proessors.updateOne(
  {subject: "Physics"},
  {$set: {active: true}}
)
```

7. Delete the professor who teaches "Chemistry"

```
db.proessors.deleteOne({subject: "Chemistry"})
```