

MongoDB Assignment:

Q1) Switch to a new database called facultydb

test> use facultydb

switched to db facultydb

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

facultydb> 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  
... }  
... ])
```

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('682c5e182b546c4ab96c4bd0'),
    '1': ObjectId('682c5e182b546c4ab96c4bd1'),
    '2': ObjectId('682c5e182b546c4ab96c4bd2')
  }
}
```

Q3) Find all professors in the professors collection

facultydb> db.professors.find()

```
[
  {
    _id: ObjectId('682c5e182b546c4ab96c4bd0'),
    name: 'Dr. Kavita Iyer',
    subject: 'Mathematics',
    experience: 10,
    active: true
  },
  {
    _id: ObjectId('682c5e182b546c4ab96c4bd1'),
    name: 'Dr. Nikhil Sinha',
    subject: 'Physics',
    experience: 5,
    active: false
  },
  {
    _id: ObjectId('682c5e182b546c4ab96c4bd2'),
```

```
name: 'Dr. Meera Das',
subject: 'Chemistry',
experience: 8,
active: true
}
]
```

Q4) Find only the professors who are active

facultydb> db.professors.find({active: true})

```
[
{
  _id: ObjectId('682c5e182b546c4ab96c4bd0'),
  name: 'Dr. Kavita Iyer',
  subject: 'Mathematics',
  experience: 10,
  active: true
},
{
  _id: ObjectId('682c5e182b546c4ab96c4bd2'),
  name: 'Dr. Meera Das',
  subject: 'Chemistry',
  experience: 8,
  active: true
}
]
```

Q5) Update the experience of the "Physics" professor to 6 years

facultydb> db.professors.updateOne(

```
... { subject: "Physics" },  
... { $set: { experience: 6 } }  
... )  
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

Q6) Mark the "Physics" professor as active

facultydb> db.professors.updateOne(

```
... { subject: "Physics" },  
... { $set: { active: true } }  
... )  
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,  
  modifiedCount: 1,  
  upsertedCount: 0  
}
```

Q7) Delete the professor who teaches "Chemistry"

facultydb> db.professors.deleteOne({subject: "Chemistry"})

```
{ acknowledged: true, deletedCount: 1 }
```