

```
test> use practiceDB
switched to db practiceDB
practiceDB> db.users.insertOne({
...   name: "Michael Pieczara",
...   favoriteColor: "red"
... })
{
  acknowledged: true,
  insertedId: ObjectId('67fdc222eb83d2a34fb71236')
}
practiceDB> █
```

0.

```
practiceDB> db.users.find({ name: "Michael Pieczara" }).pretty()
...
[
  {
    _id: ObjectId('67fdc222eb83d2a34fb71236'),
    name: 'Michael Pieczara',
    favoriteColor: 'red'
  }
]
practiceDB> █
```

1.

```

practiceDB> db.activities.find({
...   user: "loc_the_viking",
...   distance: { $gte: 4 }
... }).pretty()
...
[
  {
    _id: ObjectId('5f90dd97d05800f2e079934f'),
    activity: { type: 'swimming' },
    weight: 185,
    distance: 5,
    time: 35,
    user: 'loc_the_viking'
  },
  {
    _id: ObjectId('5f90dd97d05800f2e0799353'),
    activity: { type: 'swimming' },
    weight: 182,
    distance: 4,
    time: 40,
    user: 'loc_the_viking'
  },
  {
    _id: ObjectId('5f90dee0d05800f2e0799355'),
    activity: { type: 'walking' },
    weight: 185,
    distance: 5,
    time: 50,
    user: 'loc_the_viking'
  }
]

```

2.

```
practiceDB> db.activities.find({
...   $or: [
...     { distance: { $gt: 5 } },
...     { distance: { $lt: 3 } }
...   ]
... }).pretty()
...
[
  {
    _id: ObjectId('5f867f035080a1934d0e2219'),
    activity: { type: 'swimming' },
    weight: 199,
    distance: 6,
    time: 33
  },
  {
    _id: ObjectId('5f90dee0d05800f2e0799359'),
    activity: { type: 'walking' },
    weight: 180,
    distance: 2,
    time: 20,
    user: 'loc_the_viking'
  }
]
practiceDB> 
```

3.

```

practiceDB> db.activities.find({
...   user: "heavyMetalHippy",
...   "activity.type": "swimming"
... }).pretty()
...
[
  {
    _id: ObjectId('5f90dd97d05800f2e0799350'),
    activity: { type: 'swimming' },
    weight: 196,
    distance: 5,
    time: 40,
    user: 'heavyMetalHippy'
  }
]

```

4.

```

practiceDB> db.activities.find(
...   { weight: { $gt: 250 } },
...   { user: 1, time: 1, distance: 1, _id: 0 }
... ).pretty()
...
[
  { distance: 3, time: 26, user: 'grittyCity' },
  { distance: 3, time: 26, user: 'phreneticPhanatic' },
  { distance: 5, time: 37, user: 'grittyCity' },
  { distance: 4, time: 34, user: 'phreneticPhanatic' }
]
practiceDB> 

```

5.

```

practiceDB> db.activities.find(
...   { "activity.type": "running" },
...   { _id: 1, weight: 1 }
... ).pretty()
...
[
  { _id: ObjectId('5f8679755080a1934d0e2215'), weight: 200 },
  { _id: ObjectId('5f90dd97d05800f2e079934e'), weight: 195 },
  { _id: ObjectId('5f90dd97d05800f2e0799351'), weight: 340 },
  { _id: ObjectId('5f90dee0d05800f2e0799356'), weight: 196 },
  { _id: ObjectId('5f90dee0d05800f2e0799358'), weight: 280 }
]
practiceDB>

```

6.

```

practiceDB> db.users.updateOne(
...   { _id: "phreneticPhanatic" },
...   { $set: { email: "levyj63@rowan.edu" } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
practiceDB> db.users.find({ _id: "phreneticPhanatic" }).pretty()
...
[
  {
    _id: 'phreneticPhanatic',
    name: 'Unknown',
    age: 43,
    email: 'levyj63@rowan.edu',
    email_verified: false
  }
]
practiceDB>

```

7.

```

practiceDB> db.activities.updateMany(
...   { user: "heavyMetalHippy" },
...   { $set: { weight: 200 } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 4,
  upsertedCount: 0
}
practiceDB> db.activities.find({ user: "heavyMetalHippy" }).pretty()
...
[
  {
    _id: ObjectId('5f90dd97d05800f2e079934e'),
    activity: { type: 'running' },
    weight: 200,
    distance: 3,
    time: 26,
    user: 'heavyMetalHippy'
  },
  {
    _id: ObjectId('5f90dd97d05800f2e0799350'),
    activity: { type: 'swimming' },
    weight: 200,
    distance: 5,
    time: 40,
    user: 'heavyMetalHippy'
  },
  {
    _id: ObjectId('5f90dee0d05800f2e0799354'),
    activity: { type: 'walking' },
    weight: 200,
    distance: 4,
    time: 45,
    user: 'heavyMetalHippy'
  },
  {
    _id: ObjectId('5f90dee0d05800f2e0799356'),

```

```

practiceDB> db.activities.updateMany(
...   { user: "grittyCity", "activity.type": { $ne: "walking" } },
...   { $set: { "activity.type": "walking" } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
practiceDB> db.activities.find({ user: "grittyCity" }).pretty()
...
[
  {
    _id: ObjectId('5f90dd97d05800f2e0799351'),
    activity: { type: 'walking' },
    weight: 340,
    distance: 3,
    time: 26,
    user: 'grittyCity'
  },
  {
    _id: ObjectId('5f90dee0d05800f2e0799357'),
    activity: { type: 'walking' },
    weight: 345,
    distance: 5,
    time: 37,
    user: 'grittyCity'
  }
]
practiceDB>

```

9.

```

practiceDB> db.users.findOne({ name: "Michael Pieczara" })._id
ObjectId('67fdc222eb83d2a34fb71236')
practiceDB> db.activities.updateMany(
...   { user: { $exists: false } },
...   { $set: { user: ObjectId("67fdc222eb83d2a34fb71236") } }
... )
...
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 6,
  modifiedCount: 6,
  upsertedCount: 0
}
practiceDB> db.activities.find({ user: ObjectId("67fdc222eb83d2a34fb71236") }).pretty()
...
[
  {
    _id: ObjectId('5f8678755080a1934d0e2214'),
    activity: { type: 'walking', calculation: null },
    weight: 200,
    distance: 5,
    time: 50,
    user: ObjectId('67fdc222eb83d2a34fb71236')
  },
  {
    _id: ObjectId('5f8679755080a1934d0e2215'),
    activity: { type: 'running', calculation: null },
    weight: 200,
    distance: 4,
    time: 35,
    user: ObjectId('67fdc222eb83d2a34fb71236')
  },
  {
    _id: ObjectId('5f867a355080a1934d0e2217'),
    activity: { type: 'swimming', calculation: null },
    weight: 195,
    distance: 4,
    time: 40,
    user: ObjectId('67fdc222eb83d2a34fb71236')
  },
]

```

10.