

# 数据库作业07

## 启动数据库

```
(base) liuyongjie@liuyongjiedeMacBook-Pro ~ % mongosh
Current Mongosh Log ID: 682c97561624dc715c8b556e
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverS
electionTimeoutMS=2000&appName=mongosh+2.5.1
Using MongoDB:      8.0.9
Using Mongosh:       2.5.1

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

To help improve our products, anonymous usage data is collected and sent to Mongo
oDB periodically (https://www.mongodb.com/legal/privacy-policy).
You can opt-out by running the disableTelemetry() command.

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The server generated these startup warnings when booting
  2025-05-20T22:51:04.470+08:00: Access control is not enabled for the database
. Read and write access to data and configuration is unrestricted
-----

test> █
```

## 创建新数据库

```
[myDatabase> db.createCollection("users")
{ ok: 1 }
myDatabase> █
```

## 操作

### Insert

```
myDatabase> db.createCollection("users")
{ ok: 1 }
myDatabase> db.users.insertOne({
...   name: "Alice",
...   age: 25,
...   city: "Beijing"
... })
{
  acknowledged: true,
  insertedId: ObjectId('682c97e61624dc715c8b556f')
}
```

## Find

1. 查询全部用户

```
[myDatabase> db.users.find().pretty()
[
  {
    _id: ObjectId('682c97e61624dc715c8b556f'),
    name: 'Alice',
    age: 25,
    city: 'Beijing'
  }
]
```

2. 查询特定用户

```
[myDatabase> db.users.find({name:"Alice"}).pretty()
[
  {
    _id: ObjectId('682c97e61624dc715c8b556f'),
    name: 'Alice',
    age: 25,
    city: 'Beijing'
  }
]
```

## Update

```
myDatabase> db.users.updateOne(
...   { name: "Alice" },
...   { $set: { age: 26 } }
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

## Delete

```
[myDatabase> db.users.deleteOne({ name: "Alice" })
{ acknowledged: true, deletedCount: 1 }
```