MongoDB Beginner Lab - Step-by-Step Guide

STEP 0: Start MongoDB and Open Shell

Open 2 CMD windows:

CMD 1 (start MongoDB server):

```
cd "C:\Program Files\MongoDB\Server\6.0\bin"
mongod
```

CMD 2 (start Mongo Shell):

```
cd "C:\Program Files\MongoDB\Server\6.0\bin"
mongosh
```

STEP 1: Create / Switch Database

```
use school
```

STEP 2: Create Collection and Insert Data

```
db.students.insertOne({ name: "John", age: 18, grade: "A" })
show collections
```

STEP 3: Insert Many Documents

```
db.students.insertMany([
  { name: "Ravi", age: 19, grade: "B" },
```

```
  { name: "Priya", age: 20, grade: "A" },

  { name: "Amit", age: 21, grade: "C" }

])
```

STEP 4: Find (Read) Operations

```
db.students.find()

db.students.find().pretty()

db.students.find({ grade: "A" })
```

STEP 5: Update Operations

```
db.students.updateOne(

  { name: "Ravi" },

  { $set: { grade: "A+" } }

)
```

```
db.students.updateMany(

  { grade: "C" },

  { $set: { grade: "B" } }

)
```

STEP 6: Delete Operations

```
db.students.deleteOne({ name: "Amit" })

db.students.deleteMany({ grade: "B" })
```

STEP 7: Additional Commands

db   --> show current database

show dbs   --> show all databases

show collections   --> show all collections in current db

db.students.drop()   --> drop collection

db.dropDatabase()   --> drop current database

STEP 8: Exit Shell

exit