

Create a Database and Collection

create a new database:

```
> use Mongoexp
< switched to db Mongoexp
```

Create a collection (if it does not already exist):

```
> db.createCollection("myCollection")
< { ok: 1 }
```

Create (Insert) Documents

Insert a single document:

```
> db.myCollection.insertOne({ name: "Alice", age: 30, city: "New York" })
< {
  acknowledged: true,
  insertedId: ObjectId('6694f9e9b4521893bdb0f319')
}
```

Insert multiple documents:

```
> db.myCollection.insertMany([
  { name: "Bob", age: 25, city: "Los Angeles" },
  { name: "Charlie", age: 35, city: "Chicago" }
])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6694fbfdb4521893bdb0f31a'),
    '1': ObjectId('6694fbfdb4521893bdb0f31b')
  }
}
```

Read (Query) Documents

Read all documents in a collection:

```
> db.myCollection.find()
< {
  _id: ObjectId('6694fbe9b4521893bdb0f319'),
  name: 'Alice',
  age: 30,
  city: 'New York'
}
{
  _id: ObjectId('6694fbfdb4521893bdb0f31a'),
  name: 'Bob',
  age: 25,
  city: 'Los Angeles'
}
{
  _id: ObjectId('6694fbfdb4521893bdb0f31b'),
  name: 'Charlie',
  age: 35,
  city: 'Chicago'
}
```

Find a specific document:

```
> db.myCollection.findOne({ name: "Alice" })
< {
  _id: ObjectId('6694fbe9b4521893bdb0f319'),
  name: 'Alice',
  age: 30,
  city: 'New York'
}
```

Find documents with a specific condition:

```
> db.myCollection.find({ age: { $gt: 30 } })
< {
  _id: ObjectId('6694fbfdb4521893bdb0f31b'),
  name: 'Charlie',
  age: 35,
  city: 'Chicago'
}
```

Update Documents

Update a specific document:

```
> db.myCollection.updateOne(
  { name: "Alice" },
  { $set: { age: 31 } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Update multiple documents:

```
> db.myCollection.updateMany(
  { age: { $lt: 30 } },
  { $set: { city: "San Francisco" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

Delete Documents

Delete a specific document:

```
> db.myCollection.deleteOne({ name: "Charlie" })
< {
  acknowledged: true,
  deletedCount: 1
}
```

Delete multiple documents:

```
> db.myCollection.deleteMany({ age: { $gt: 30 } })
< {
  acknowledged: true,
  deletedCount: 1
}
```

Drop a Collection

```
> db.myCollection.drop()
< true
```

```
> show dbs
```