THE MONGO SHELL

Introduction to basic shell commands

INTRODUCTION

MongoDB comes with a Javascript shell that allows interaction with a MongoDB instance from the command line.

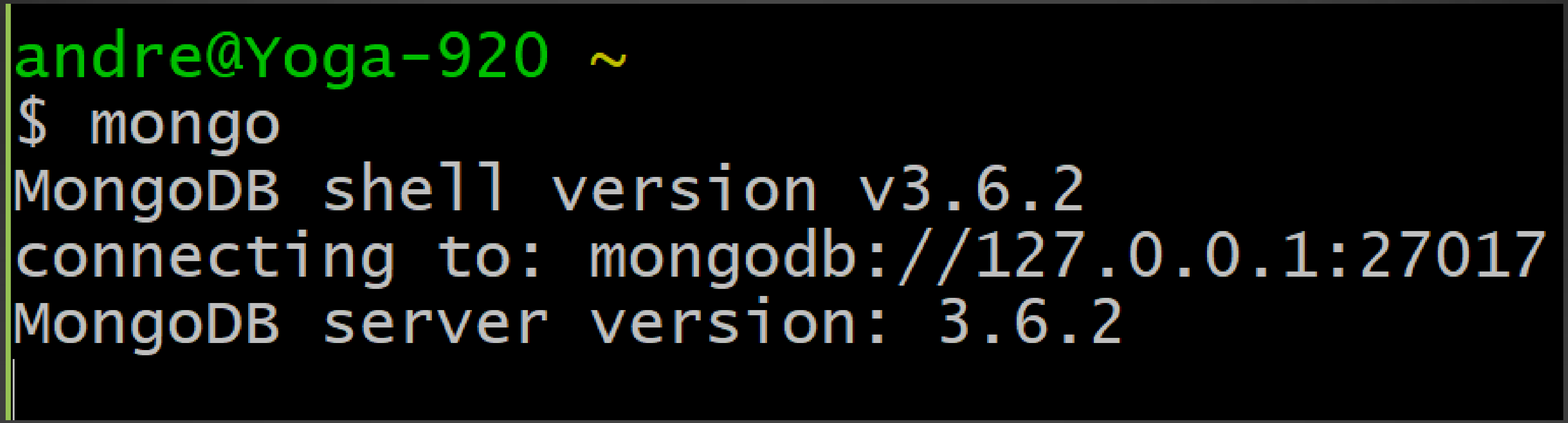
INTRODUCTION

Mongo has to be started before using it.

```
$sheehan:>
mongod
```

RUNNING THE SHELL

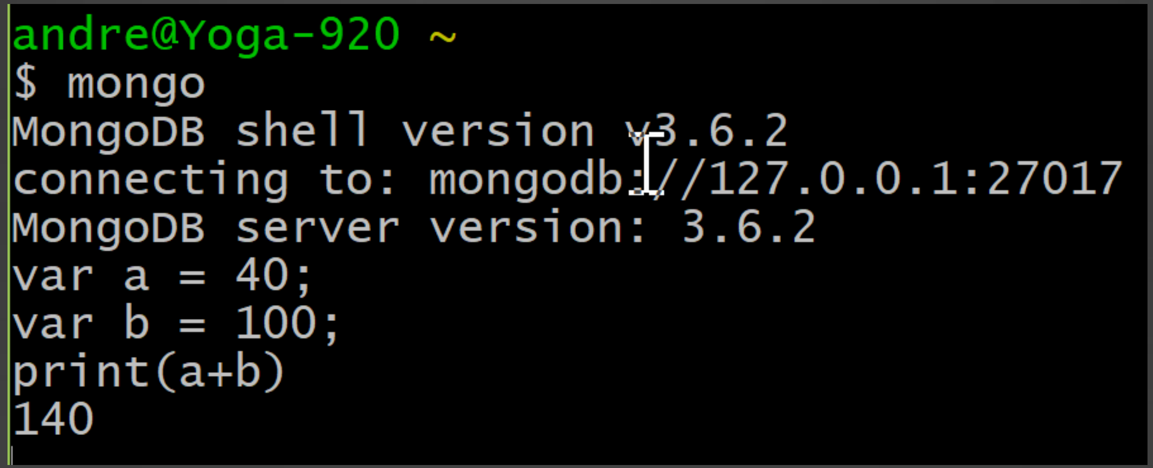
To start the shell, run the ‘mongo’ executable.



```
andre@Yoga-920 ~
$ mongo
MongoDB shell version v3.6.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.2
```

THE SHELL

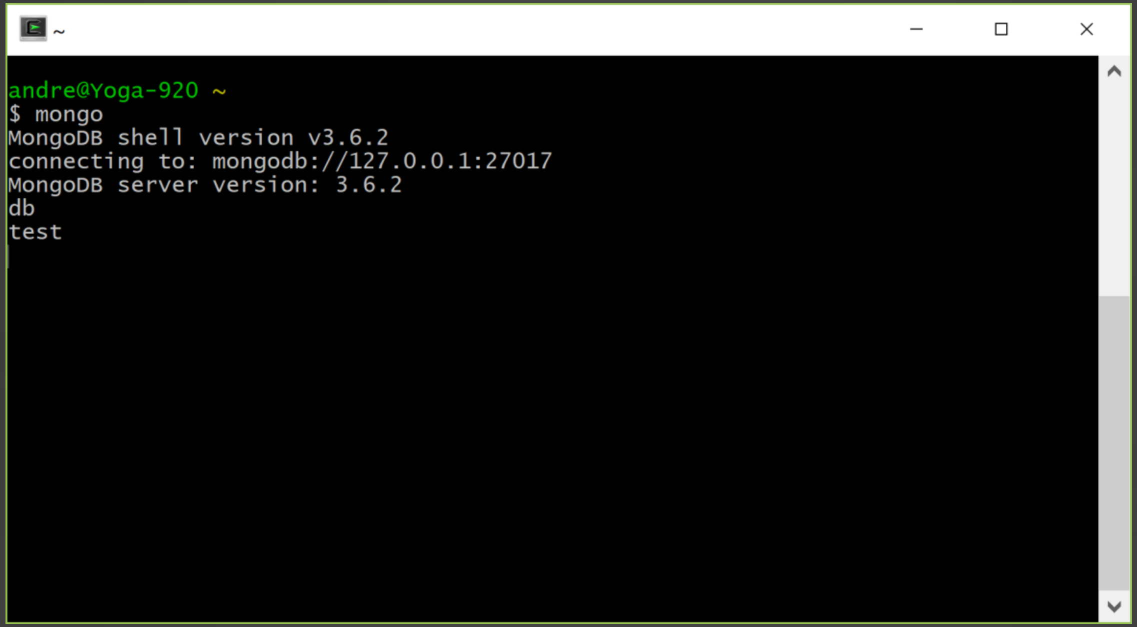
The shell is a full-featured JavaScript interpreter, capable of running arbitrary Javascript expressions.



```
andre@Yoga-920 ~
$ mongo
MongoDB shell version v3.6.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.2
var a = 40;
var b = 100;
print(a+b)
140
```

SHELL COMMAND: ‘DB’

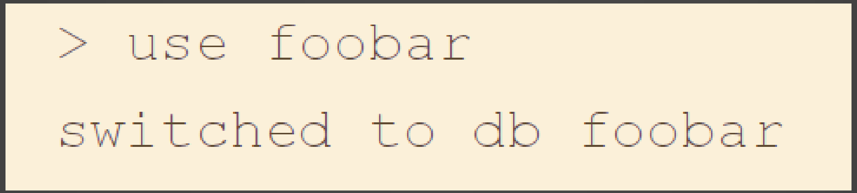
What database are you using



```
andre@Yoga-920 ~
$ mongo
MongoDB shell version v3.6.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.2
db
test
```

SHELL COMMAND: ‘USE’

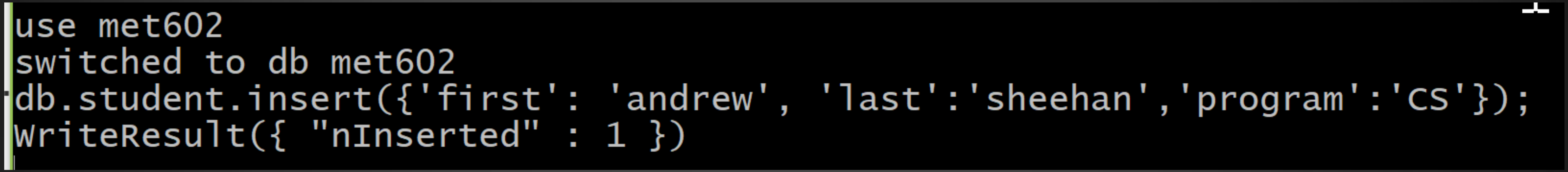
Which database do you want?



```
> use foobar
switched to db foobar
```

SHELL: INSERT()

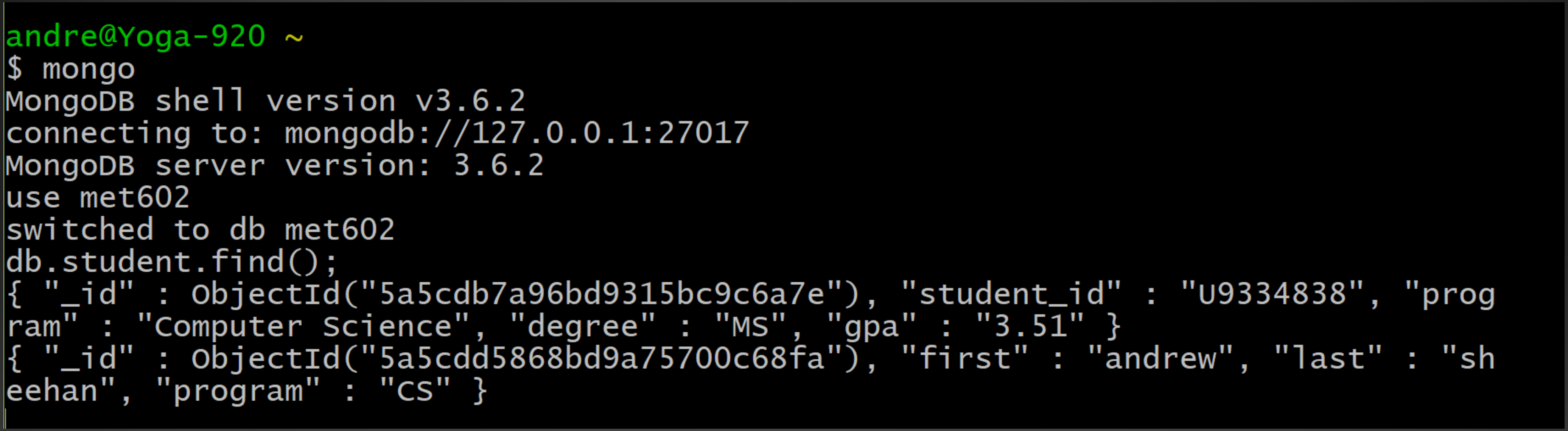
Insert a Document to your Collection



```
use met602
switched to db met602
db.student.insert({'first': 'andrew', 'last':'sheehan','program':'CS'});
WriteResult({ "nInserted" : 1 })
```

SHELL: FIND()

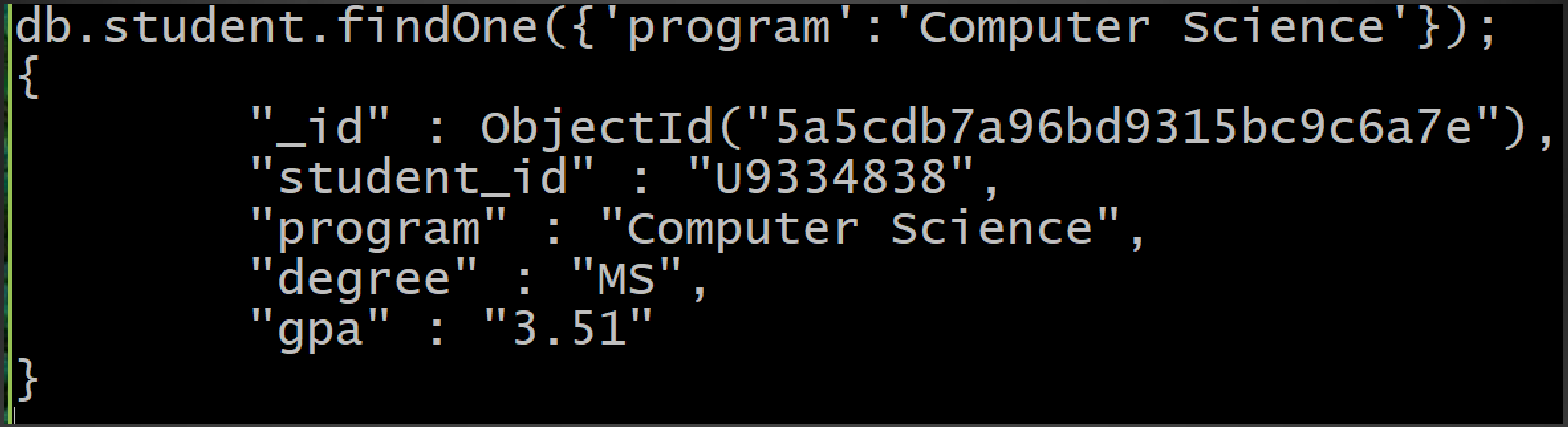
Displays all the documents.



```
andre@Yoga-920 ~
$ mongo
MongoDB shell version v3.6.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 3.6.2
use met602
switched to db met602
db.student.find();
{ "_id" : ObjectId("5a5cdb7a96bd9315bc9c6a7e"), "student_id" : "U9334838", "prog
ram" : "Computer Science", "degree" : "MS", "gpa" : "3.51" }
{ "_id" : ObjectId("5a5cdd5868bd9a75700c68fa"), "first" : "andrew", "last" : "sh
eehan", "program" : "CS" }
```

SHELL: FINDONE()

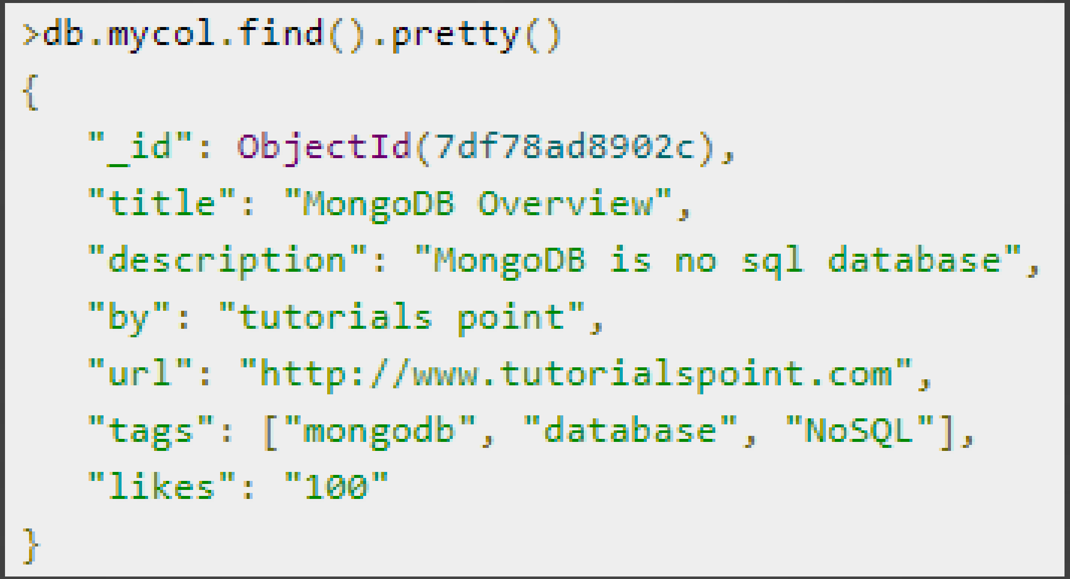
Finds just one Document.



```
db.student.findOne({'program':'Computer Science'});
{
        "_id" : ObjectId("5a5cdb7a96bd9315bc9c6a7e"),
        "student_id" : "U9334838",
        "program" : "Computer Science",
        "degree" : "MS",
        "gpa" : "3.51"
}
```

SHELL: PRETTY()

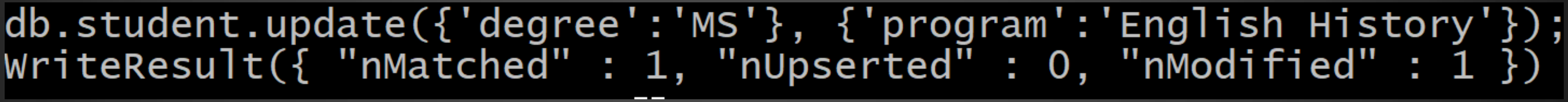
Nicely formats your query data.



```
>db.mycol.find().pretty()
{
   "_id": ObjectId(7df78ad8902c),
   "title": "MongoDB Overview",
   "description": "MongoDB is no sql database",
   "by": "tutorials point",
   "url": "http://www.tutorialspoint.com",
   "tags": ["mongodb", "database", "NoSQL"],
   "likes": "100"
}
```

SHELL: UPDATE()

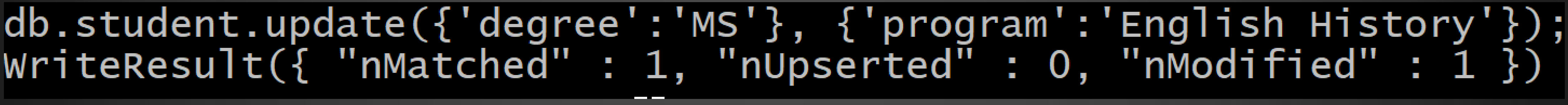
Updates a Document.



```
db.student.update({'degree':'MS'}, {'program':'English History'});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

SHELL: DELETE()

Deletes a Document.



```
db.student.update({'degree':'MS'}, {'program':'English History'});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```