

### 1. JavaScript Shell

The first thing to notice is that the MongoDB shell is JavaScript-based.

So you can do things like:

```
a = 5;
a * 10;
for(i=0; i<10; i++) { print('hello'); };
```

Try a few JS commands; when you're ready to move on, enter 'next'

```
> a = 10;

> b = 5;

> a*b;

> print(a*b);
50

> |
```

```
> var a = {age: 21};
{
  "age" : 21
}

> var n = {name: 'Alex', languages: ['Perl', 'HTML', 'C++']};
{
  "name" : "Alex",
  "languages" : [ "Perl", "HTML", "C++" ]
}

> var student = {name: 'Jason', score: [80, 85, 90, 92]};
{
  "name" : "Jason",
  "score" : [ 80, 85, 90, 92 ]
}

>
```

### 3. Saving

Here's how you save a document to MongoDB:

```
db.scores.save({a: 99});
```

This says, "save the document '{a: 99}' to the 'scores' collection."

Go ahead and try it. Then, to see if the document was saved, try

```
db.scores.find();
```

Once you've tried this, type 'next'.

```
> db.scores.save({a: 99});
"ok"

> db.scores.find();

[
  { "a" : 99, "_id" : { "$oid" : "513f9bc6cc93742c1602f0fa" } }
]

> |
```

```

> for(i=0; i<10; i++) { db.scores.save({a: i, exam: 5});
"ok"
> db.scores.find();

[
  { "a" : 99, "_id" : { "$oid" : "513f9bc6cc93742c1602f0fa" } },
  { "exam" : 5, "a" : 0, "_id" : { "$oid" : "513f9c73cc93742c1602f0fb" } },
  { "exam" : 5, "a" : 2, "_id" : { "$oid" : "513f9c73cc93742c1602f0fc" } },
  { "exam" : 5, "a" : 1, "_id" : { "$oid" : "513f9c73cc93742c1602f0fd" } },
  { "exam" : 5, "a" : 3, "_id" : { "$oid" : "513f9c73cc93742c1602f0fe" } },
  { "exam" : 5, "a" : 5, "_id" : { "$oid" : "513f9c73cc93742c1602f0ff" } },
  { "exam" : 5, "a" : 4, "_id" : { "$oid" : "513f9c73cc93742c1602f100" } },
  { "exam" : 5, "a" : 6, "_id" : { "$oid" : "513f9c73cc93742c1602f101" } },
  { "exam" : 5, "a" : 9, "_id" : { "$oid" : "513f9c73cc93742c1602f102" } },
  { "exam" : 5, "a" : 8, "_id" : { "$oid" : "513f9c73cc93742c1602f103" } }
]
> |

```

How about finding all documents where  $a = 2$ :

```
db.scores.find({a: 2});
```

Or what about documents where  $a > 15$ ?

```
db.scores.find({a: {'$gt': 15}});
```

```
> db.scores.find({a: 2});
```

```

[
  { "exam" : 5, "a" : 2, "_id" : { "$oid" : "513f7f8fcc93742c1602ef27" } }
]

```

```
> db.scores.find({a: {'$gt': 15}});
```

```

[
  { "a" : 99, "_id" : { "$oid" : "513f8160cc93742c1602ef5c" } }
]
> |

```