

Mongo DB CRUD-populate and read

2.1 Populate a Collection using JavaScript

Windows PowerShell

```
> function insertCity(  
...     name, population, last_census, famous_for, mayor_info) {  
...     db.towns.insert({  
...         name:name,  
...         population:population,  
...         last_census: ISODate(last_census),  
...         famous_for:famous_for,  
...         mayor : mayor_info  
...     });  
... }  
> insertCity("Springfield", 116250, "2010-07-10", ["Abraham Lincoln", "route 66"],  
... {name: "Jim Langfelder"})
```

Inserted additional cities as follows:

```
> insertCity("Chicago", 2695600, "2010-07-10", ["The Cubs", "pizza"],  
... {name: "Rahm Emanuel", party: "D"})
```

Finding three towns in our collection by calling db.towns.find():

```
> db.towns.find()  
{ "_id" : ObjectId("65d80afe4bc08f08b3c19635"), "name" : "New York", "population" : 8406000, "last_census" : ISODate("2012-07-31T00:00:00Z"), "famous_for" : [ "statue of liberty", "broadway",  
"food" ], "mayor" : { "name" : "Bill de Blasio", "party" : "D" } }  
{ "_id" : ObjectId("65d80c3c4bc08f08b3c19636"), "name" : "Springfield", "population" : 116250, "last_census" : ISODate("2010-07-10T00:00:00Z"), "famous_for" : [ "Abraham Lincoln", "route 66" ],  
"mayor" : { "name" : "Jim Langfelder" } }  
{ "_id" : ObjectId("65d80d004bc08f08b3c19637"), "name" : "Chicago", "population" : 2695600, "last_census" : ISODate("2010-07-10T00:00:00Z"), "famous_for" : [ "The Cubs", "pizza" ], "mayor" : {  
"name" : "Rahm Emanuel", "party" : "D" } }
```

2.2 Reading from a Collection

The following result illustrates the retrieval of document by specifying the object id:

```
> db.towns.find({"_id" : ObjectId("65d80afe4bc08f08b3c19635")})  
{ "_id" : ObjectId("65d80afe4bc08f08b3c19635"), "name" : "New York", "population" : 8406000, "last_census" : ISODate("2012-07-31T00:00:00Z"), "famous_for" : [ "statue of liberty", "broadway",  
"food" ], "mayor" : { "name" : "Bill de Blasio", "party" : "D" } }
```

Filtering the parameters of find():

The below result illustrates the retrieval of document with only name parameter by specifying '1':

```
> db.towns.find({"_id": ObjectId("65d80afe4bc08f08b3c19635")},{name:1})
{ "_id" : ObjectId("65d80afe4bc08f08b3c19635"), "name" : "New York" }
```

The below result illustrates the retrieval of all parameters except one parameter by specifying that parameter with '0' value:

```
> db.towns.find({"_id": ObjectId("65d80afe4bc08f08b3c19635")},{name:0})
{ "_id" : ObjectId("65d80afe4bc08f08b3c19635"), "population" : 8406000, "last_census" : ISODate("2012-07-31T00:00:00Z"), "famous_for" : [ "statue of liberty", "broadway", "food" ], "mayor" : {
"name" : "Bill de Blasio", "party" : "D" } }
```

=====THE END=====