Data Storage and Retrieval – Assignment 10

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1. **Print a JSON document containing `{"hello": "world"}`**

```
printjson({"hello": "world"})
```

2. **Select a town via a case-insensitive regular expression containing the word *new*.**

```
db.cities.find({name: /new/i}).limit(1)
```

3. **Find all cities whose names contain *e* and are famous for food or beer.**

```
db.towns.find({name: /e/i, famous_for: {$in: ["food", "beer"]}})
```

4. **Create a new database named *blogger* with a collection named *articles*. Insert a new article with an author name and email, creation date, and text.**

```
use blogger;
db.articles.insert(
{author:
  {name: "Steve I-cant-spell Buschemi",
   email: "StevieWonderful@hotlink.com"},
   creation_date: "yesterday (that won't ever be confusing)",
   text: "Has he ever been in a bad movie? How has he not gotten an Oscar yet? Wait... Has he gotte
```

5. **Update the article with an array of comments, containing a comment with an author and text.**

```
db.articles.update(
  {"author.name": /Steve/i},
  {$set: {comments:
          [{author: "John Clease", text: "We are the nights who say, NI!"},
           {author: "Jack Doneghy", text: "It's spelled with a 'k'!"}
          ]}})
```

6. **Run a query from external JavaScript and Python files.**

   This isn't really something I can put here, but I'll try.

```
mongo cities < tmp.js
```

   Where `tmp.js` is normal JavaScript code one might execute from within Mongo. In my case, it's just `db.cities.find().limit(1)` (both the collection and the database are called `cities`, unfortunately). As for Python, we will simply execute the code directly.

```
from pymongo import MongoClient
mg = MongoClient()
print(mg.database_names())
```

```
## [u'test', u'local', u'cities', u'admin']
```