Project 5

Ben Arancibia

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I found a really interesting R package on Github that allows you to easily interact with a Neo4j graph database from the R environment. This package is called RNeo4j.

```
require(RNeo4j)
```

```
## Loading required package: RNeo4j
```

Load the R data.

```
crime_state <- read.csv("/users/bcarancibia/CUNY_IS_607/week13/CrimeStatebyState.csv")
```

Instalize the graph object (start neo4j) and test to see if connected.

```
graph = startGraph("http://localhost:7474/db/data/")

graph$version #should see version
```

```
## [1] "2.1.5"
```

Get a list of unique States.

```
id.v = unique(crime_state$State)
length(id.v)
```

```
## [1] 51
```

Get a list of unique crimes.

```
crime_name = unique(crime_state$Crime)
length(crime_name)
```

```
## [1] 7
```

Load the data into Neo4j and create nodes for states

```
for(x in 1:length(id.v))
  {
  num = id.v[x]
  createNode(graph, "State_Name")
  }
```

```
for (x in 1:length(crime_name))
  {
  name = crime_name[x]
  createNode(graph, "Crime_Type")
  }

#test to see if nodes were created

query = "Match (c:State_name) RETURN c.id"
query = "MATCH (c:Crime_Type) RETURN c.id"

cypher(graph, query)
```

```
##   c.id
## 1   NA
## 2   NA
## 3   NA
## 4   NA
## 5   NA
## 6   NA
## 7   NA
```