CAS 412 MEAN PS5: Mongo Puzzles

For each problem, copy the command that you used into the corresponding PDF text box.

P1. Select all of the restaurants in Manhattan.

```
db.restaunts.find({borough: "Manhattan"})
```

P2. Select all of the restaurants in Manhattan, but only display the name of the restaurant and its type of cuisine.

```
db.restaunts.find({borough: "Manhattan"}, {name:1, cuisine:1})
```

P3. Select all of the restaurants in Manhattan with a sanitation grade of 'A'

```
db.restaunts.find({borough: "Manhattan", grades:{$elemMatch:{grade:"A"}}})
```

P4. Find the number of restaurants (just the number) in the database that are located in Manhattan.

```
b.restaunts.find({borough: "Manhattan"}).count()
```

P5. Find the number of restaurants (just the number) in the database that are located either in Manhattan or in Queens.

```
b.restaunts.find({$or: [{borough: "Manhattan"}, {borough: "Queens"}]}).count()
```

P6. Update the Lexler Deli and change its address to 111 Short Street in Bronx. You can leave the zip code and lat/long coordinates alone.

```
db.restaurants.updateOne({name: "Lexler Deli"}, {$set:{address:{building:"
111",street:"Short Street"}, borough:"Bronx"}})
```

P7. Insert a new restaurant with the following data:

Name: Maggie's Hideaway

Address: 1234 Commonwealth Ave, Boston MA 02215

Cuisine: Comfort

```
db.restaurants.insertOne({name: "Maggie's Hideaway", address: {building: "1234",
street: "Commonwealth Ave", zipcode: "02215", city: "Boston", state: "MA"}, cuisine: "
Comfort"})
```

P8: Find all restaurants on Wall Street; sort them by score.

```
db.restaurants.find( {"address.street":'Wall Street' }).sort({"grades.score":-1})
```

P9: Find all restaurants on Wall Street; sort them by score. Display only the name and score.

```
db.restaurants.find( {"address.street":'Wall Street' },{name:1,"grades.score":1}).sort({"grades.score":-1})
```

P10 (no points, just for fun): Using the same method you used to load the sample restaurants database, load the collection at https://raw.githubusercontent.com/mongodb/docs-assets/geospatial/restaurants.json into the 'test' db, in a collection named geo.

Next, find the number of restaurants that are within a 1-mile radius of Morris Park Bake Shop. Copy and paste the lat/long of the bake shop rather than constructing a query to insert the lat/long.