CAS 412 MEAN PS5: Mongo Puzzles

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

P1. Select all of the restaurants in Manhattan.

ANS: db.restaurants.find({ borough: "Manhattan" })

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

ANS: db.restaurants.find({ borough: "Manhattan" }, { name: 1, cuisine: 1, _id: 0 })

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

ANS: db.restaurants.find({ borough: "Manhattan", 'grades.grade': "A" })

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

ANS: db.restaurants.count({ borough: "Manhattan" })

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

ANS: db.restaurants.count({ borough: { $in: ["Manhattan", "Queens"] } })

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.

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

P7. Insert a new restaurant with the following data: Name: Maggie's Hideaway

Address: 1234 Commonwealth Ave, Boston MA 02215 Cuisine: Comfort

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

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

ANS: 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.

ANS: db.restaurants.find({'address.street': "Wall Street"}, {name:1,'grades.score': 1, _id: 0}).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.

ANS: db.geo.count({ 'location,coordinates': {$gte: -73.8705697, $lte: -73.841584 , $gte: 40.834, $lte: 40.862847}})