HW3: Working with a Document Store - Mongo Tutorial Anika Das

- ** I made many of my queries counts as the outputs for non-counts are really long
 - 1. **Question:** How many restaurants in New York serve Irish cuisine
 - a. Mongo query: db.rest.find({cuisine:"Irish"}).count()
 - b. Query output: 190
 - 2. **Question**: How many American restaurants are in Manhattan?
 - a. **Mongo query:** db.rest.find({cuisine:'American', borough:'Manhattan'}).count()
 - b. Query output: 3205
 - 3. **Question**: What restaurants are building #705 in their address
 - a. **Mongo query:** db.rest.find({"address.building":"705"}).count()
 - b. **Query output:** 8 results, full output below:

```
{ "_id" : ObjectId("62211e0487c5fc662953dcef"), "address" : { "building" : "705", "coord" : [ -73.9653967, 40.6064339 ], "street" :
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: "40360045" }
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"street": "Brighton Beach Avenue", "zipcode": "11235" }, "borough": "Brooklyn", "cuisine": "Pizza/Italian", "grades": [ { "date":
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11 }, { "date" : ISODate("2012-05-10T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "Royal Pizzeria", "restaurant id" :
"41309676" }
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"restaurant id": "41388576" }
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12 }, { "date" : ISODate("2012-06-07T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-01-30T00:00:00Z"), "grade"
: "A", "score" : 3 } ], "name" : "No. 1 Chinese Restaurant", "restaurant id" : "41543375" }
```

```
{ "_id" : ObjectId("62211e0487c5fc6629541233"), "address" : { "building" : "705", "coord" : [ -73.9161301, 40.8200851 ], "street" : "Melrose Avenue", "zipcode" : "10455" }, "borough" : "Bronx", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-07-22T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-07-06T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-07-12T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2011-08-03T00:00:00Z"), "grade" : "A", "score" : 2 } ], "name" : "Landin Macaroni And Cheese", "restaurant_id" : "41586806" } { "_id" : ObjectId("62211e0587c5fc66295435f2"), "address" : { "building" : "705", "coord" : [ -73.8614494999999, 40.8856332 ], "street" : "East 222 Street", "zipcode" : "10467" }, "borough" : "Bronx", "cuisine" : "Caribbean", "grades" : [ { "date" : ISODate("2014-10-08T00:00:00Z"), "grade" : "B", "score" : 14 } ], "name" : "Chix Express", "restaurant_id" : "50011404" }
```

- 4. **Question**: How many restaurants have a most recent score of 10
 - a. **Mongo query:** db.rest.find({"grades.0.score":10}).count()
 - b. **Query output:** 2731
- 5. **Question**: How many Chinese restaurants in Queens have a most recent score of 10?
 - a. $\begin{tabular}{ll} \textbf{Mongo query:} \\ \textbf{db.rest.find(\{cuisine: "Chinese",borough: "Queens", "grades.0.score": 10\}).count() \\ \end{tabular}$
 - b. Query output: 83
- 6. **Question**: How many pizza places are in manhattan? ("pizza" in name, case insensitive)
 - a. **Mongo query:** db.rest.find({borough:"Manhattan", name:/Pizza/i}).count()
 - b. Query output: 362
- 7. **Question**: Sort the chinese restaurants on Wyckoff Avenue by most recent grade in ascending order
 - a. **Mongo query:** db.rest.find({"address.street":"Wyckoff Avenue", cuisine:"Chinese"}).sort({"grades.0.score":1}).pretty()
 - b. Query output: Full/actual output pasted below
 - i. Lee Garden Chinese Restaurant, score: 7
 - ii. Lucky Garden, score: 9
 - iii. Jade Garden, score: 10
 - iv. Hong Kong Express, score: 16

Full output for query 7:

```
{"_id" : ObjectId("62211e0487c5fc6629541a8b"), "address" : { "building" : "121", "coord" : [ -73.9189778, 40.7043624 ], "street" : "Wyckoff Avenue", "zipcode" : "11237" }, "borough" : "Brooklyn", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2014-12-15T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-04-30T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2012-04-18T00:00:00Z"), "grade" : "A", "score" : 5 } ], "name" : "Lee Garden Chinese Restaurant", "restaurant_id" : "41651846" }

{ "_id" : ObjectId("62211e0487c5fc6629541208"), "address" : { "building" : "305", "coord" : [ -73.9121155, 40.7003499 ], "street" : "Wyckoff Avenue", "zipcode" : "11237" }, "borough" : "Brooklyn", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2014-05-06T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-11-26T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-04-15T00:00:00Z"), "grade" : "C", "score" : 32 }, { "date" : ISODate("2012-08-30T00:00:00Z"), "grade" : "C", "score" : 64 }, { "date" : ISODate("2011-09-01T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-08-11T00:00:00Z"), "grade" : "B", "score" : 15 } ], "name" : "Lucky Garden", "restaurant id" : "41585425" }
```

```
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{"_id": ObjectId("62211e0487c5fc6629541655"), "address": {"building": "989", "coord": [-73.9047528, 40.6961978], "street": "Wyckoff Avenue", "zipcode": "11385"}, "borough": "Queens", "cuisine": "Chinese", "grades": [{"date": ISODate("2015-01-09T00:00:00Z"), "grade": "B", "score": 16}, {"date": ISODate("2013-12-04T00:00:00Z"), "grade": "A", "score": 7}, {"date": ISODate("2013-06-11T00:00:00Z"), "grade": "A", "score": 8}, {"date": ISODate("2012-06-13T00:00:00Z"), "grade": "A", "score": 9}, {"date": ISODate("2012-01-26T00:00:00Z"), "grade": "A", "score": 12}], "name": "Hong Kong Express", "restaurant_id": "41625049"}
```

- 8. **Question**: How many Indian restaurants in Brooklyn have a most recent score greater than 25?
 - a. **Mongo query:** db.rest.find({borough:"Brooklyn", cuisine: "Indian", "grades.0.score":{\$gt:25}}).count()
 - b. Query output: 4

{

- 9. **Question**: What are the Indian restaurants in Brooklyn with a most recent score greater than 30?
 - a. **Mongo query:** db.rest.find({borough:"Brooklyn", cuisine: "Indian", "grades.0.score":{\$gt:30}}).pretty()
 - b. **Query output**: There is one: Bismillah Kebab & Curry (Full/actual output pasted below)

```
"_id": ObjectId("62211e0487c5fc66295404b7"),
"address" : {
         "building": "1203",
         "coord" : [
                   -73.8650067,
                   40.6791778
         "street": "Liberty Avenue",
         "zipcode": "11208"
"borough": "Brooklyn",
"cuisine": "Indian",
"grades" : [
         {
                   "date": ISODate("2014-08-21T00:00:00Z"),
                   "grade" : "C",
                   "score" : 48
         },
                   "date": ISODate("2014-03-13T00:00:00Z"),
```

```
"grade" : "B",
                   "score": 18
         },
                   "date": ISODate("2013-08-29T00:00:00Z"),
                   "grade" : "A",
                   "score" : 12
         },
                   "date": ISODate("2013-01-31T00:00:00Z"),
                   "grade" : "B",
                   "score" : 21
         },
         {
                   "date": ISODate("2012-08-04T00:00:00Z"),
                   "grade" : "B",
                   "score" : 21
         }
"name": "Bismillah Kabab & Curry",
"restaurant_id" : "41425640"
```

- 10. **Question**: How many Irish restaurants in queens have a score less that 10
 - a. Mongo query: db.rest.find({cuisine:"Irish", borough:"Queens","grades.0.score":{\$lt:10}}).count()
 - b. Query output: 21

}

- 11. **Question**: What Italian restaurants in Queens that are on a "Boulevard" had a grade of "A"
 - a. Mongo query:
 db.rest.find({borough:"Queens",cuisine:"Italian","address.street":/Boulevard/,"gra
 des.0.grade":"A"})
 - b. **Query output:** (There are 32, this is the raw output)

```
{"_id": ObjectId("62211e0487c5fc662953dd6d"), "address": { "building": "13558", "coord": [ -73.8216767, 40.6689548 ], "street": "Lefferts Boulevard", "zipcode": "11420" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date": ISODate("2014-06-20T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2013-06-07T00:00:00Z"), "grade": "A", "score": 13 }, { "date": ISODate("2012-01-13T00:00:00Z"), "grade": "A", "score": 13 }, { "date": ISODate("2012-01-13T00:00:00Z"), "grade": "C", "score": 28 } ], "name": "Don Peppe", "restaurant_id": "40366230" } { "_id": ObjectId("62211e0487c5fc662953de38"), "address": { "building": "3941", "coord": [ -73.9245566, 40.7441786 ], "street": "Queens Boulevard", "zipcode": "11104" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date": ISODate("2014-05-06T00:00:00Z"), "grade": "A", "score": 11 }, { "date": ISODate("2013-10-29T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2013-04-18T00:00:00Z"), "grade": "B", "score": 27 }, { "date": ISODate("2012-03-06T00:00:00Z"), "grade": "A", "score": 13 } ], "name": "Dazies Restaurant", "restaurant_id": "40372426" } { "_id": ObjectId("62211e0487c5fc662953de39"), "address": { "building": "7316", "coord": [ -73.89310739999999, 40.7545576 ], "street": "Northern Boulevard", "zipcode": "11372" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date": ISODate("2014-01-16T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2012-12-13T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2012-12-13T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2011-05-18T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("201
```

```
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13 }, { "date" : ISODate("2013-04-16T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-02-09T00:00:00Z"), "grade" :
"A", "score" : 2 } ], "name" : "Papazzio Restaurant", "restaurant_id" : "40390241" }
{" id": ObjectId("62211e0487c5fc662953dfe0"), "address": { "building": "84-14", "coord": [-73.88460020000001, 40.764499],
"street": "Astoria Boulevard", "zipcode": "11370"}, "borough": "Queens", "cuisine": "Italian", "grades": [{ "date":
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24 }, { "date" : ISODate("2013-09-24T00:00:00Z"), "grade" : "B", "score" : 22 }, { "date" : ISODate("2013-02-26T00:00:00Z"), "grade"
: "B", "score" : 15 \; \}, \; \{ \; "date" : ISODate("2012-08-15T00:00:00Z"), \; "grade" : "B", \; "score" : 21 \; \}, \; \{ \; "date" : 15 \; \}, \; 
ISODate("2012-02-09T00:00:00Z"), "grade": "A", "score": 5 } ], "name": "Joey'S Place", "restaurant id": "40390781" }
{ "_id" : ObjectId("62211e0487c5fc662953e093"), "address" : { "building" : "16150", "coord" : [ -73.8391839, 40.6543479 ], "street" :
"Crossbay Boulevard", "zipcode": "11414" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date":
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13 }, { "date" : ISODate("2013-03-19T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-03-15T00:00:00Z"), "grade"
: "A", "score" : 13 } ], "name" : "Prima Pasta & Cafe", "restaurant id" : "40395110" }
{ "_id" : ObjectId("62211e0487c5fc662953e33b"), "address" : { "building" : "13703", "coord" : [ -73.8426987, 40.6720191 ], "street" :
"Cross Bay Boulevard", "zipcode": "11417"}, "borough": "Queens", "cuisine": "Italian", "grades": [{ "date":
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: "A", "score" : 13 } ], "name" : "Aldo'S Ii Pizza And Restaurant", "restaurant_id" : "40535509" }
{ "_id" : ObjectId("62211e0487c5fc662953e5d0"), "address" : { "building" : "3433", "coord" : [ -73.78914809999999, 40.765817 ],
"street": "Francis Lewis Boulevard", "zipcode": "11358" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date":
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"A", "score": 13 }, { "date": ISODate("2012-06-05T00:00:00Z"), "grade": "A", "score": 7 } ], "name": "Primo Amore",
"restaurant_id": "40624458" }
{ "_id" : ObjectId("62211e0487c5fc662953e803"), "address" : { "building" : "7328", "coord" : [ -73.75826769999999, 40.7399448 ],
"street": "Bell Boulevard", "zipcode": "11364"}, "borough": "Queens", "cuisine": "Italian", "grades": [{ "date":
ISODate("2014-10-30T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2014-04-24T00:00:00Z"), "grade": "A", "score":
4}, {"date": ISODate("2013-02-06T00:00:00Z"), "grade": "A", "score": 9}, {"date": ISODate("2012-06-19T00:00:00Z"), "grade":
"B", "score": 16 } ], "name": "Villa Rustica Ristorante", "restaurant id": "40731341" }
{ "id" : ObjectId("62211e0487c5fc662953e8a8"), "address" : { "building" : "254-12", "coord" : [ -73.7342623, 40.7716355 ], "street" :
"Northern Boulevard", "zipcode": "11362" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date":
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11 }, { "date" : ISODate("2013-04-23T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-05-02T00:00:00Z"), "grade"
: "B", "score" : 26 } ], "name" : "La Grotta Ristorante", "restaurant_id" : "40756020" }
{ "id": ObjectId("62211e0487c5fc662953ea88"), "address": { "building": "249-11", "coord": [-73.7379586, 40.7683337], "street":
"Northern Boulevard", "zipcode": "11362" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date":
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12 }, { "date" : ISODate("2013-04-04T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-05-05T00:00:00Z"), "grade"
: "A", "score" : 11 } ], "name" : "Conti'S", "restaurant_id" : "40858878" }
{ "id": ObjectId("62211e0487c5fc662953ec1f"), "address": { "building": "4746", "coord": [-73.95388919999999, 40.7442709],
"street": "Vernon Boulevard", "zipcode": "11101" }, "borough": "Queens", "cuisine": "Italian", "grades": [ { "date":
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