

# Assignment 6: Intermediate MongoDB

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February 2021

## 1 Count the number of documents.

```
[> db.restaurants.find().length()  
3772
```

Figure 1: Number of Documents

## 2 how many boroughs in the collection?

```
[> db.restaurants.distinct("borough").length  
5
```

Figure 2: Distinct boroughs in the collection

## 3 name of the 6th Brooklyn restaurant

```
> db.restaurants.find(  
... {"borough": "Brooklyn"},  
... {"name":1 , "_id":0}  
... )[5]  
{ "name" : "Wilken'S Fine Food" }
```

Figure 3: name of 6th restaurant (mongo ordering)

4 How many restaurants in the collection with the zip- code of 10075?

```
|> db.restaurants.find({"address.zipcode": "10075"}).length()  
27
```

Figure 4: Number of restaurants with zip code 10075

5 how many restaurants rated as “A”?

```
|> db.restaurants.find( { "grades.grade" : "A" } ).length()  
3759
```

Figure 5: Number of restaurants rated as ”A”

## 6 List non-Chinese kosher restaurants with score above 40.

```
> nonChinKosherRests = []  
[ ]  
> db.restaurants.find(  
... {  
... "name" : /Kosher/,  
... "cuisine" : {$not: /Chinese/} ,  
... "grades.score":{$gt: 40},  
... }  
... ).sort({"name": -1}).forEach(function(u)  
... {  
... nonChinKosherRests.push(u.name)  
... }  
... )  
[> nonChinKosherRests  
[ "Kosher Hut Of Brooklyn", "Kosher Delight", "Amnon Kosher Pizza" ]  
[>
```

Figure 6: non-Chinese kosher restaurants with score above 40

- 7 how many records DONT contain “street” information?

```
> db.restaurants.find(
... {
... "address.street": null
... }
[... ].length()
0
```

Figure 7: Number of records w/o street info.

- 8 how many restaurants either serve Italian cuisine or are located in the 10075 zip code

```
> db.restaurants.find(
... {
... $or: [
... {
... "cuisine" : /Italian/
... },
... {
... "address.zipcode": "10075"
... }
... ]
... }
[... ].length()
448
```

Figure 8: Number of Italian Restaurants or located in 10075

- 9 Pretty print the restaurant named “Viand Cafe”, omitting “grades” and “id” fields

```
> db.restaurants.find(
... {
... "name": "Viand Cafe"
... },
... {
... "grades": 0,
... "_id": 0
... }
[... ).pretty()
{
  "address" : {
    "building" : "1011",
    "coord" : [
      -73.9623333,
      40.7757194
    ],
    "street" : "Madison Avenue",
    "zipcode" : "10075"
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Viand Cafe",
  "restaurant_id" : "40369753"
}
```

Figure 9: Viand Cafe Information

- 10 Update “Viand Cafe” record “cuisine” to “American (New)” and “lastModified” field with current date and time

```
> db.restaurants.update(
... {
... "name": "Viand Cafe"
... },
... {
... $set:
... {
... "cuisine": "American (New)",
... "lastModified" : new Date()
... }
... }
[... )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Figure 10: Updating Viand Cafe

- 11 Change the address of record with restaurant id of 40369753 to “East 31st Street”

```
> db.restaurants.update(
... {
... "restaurant_id": "40369753"
... },
... {
... $set:
... {
... "address": "East 31st Street"
... }
... }
[... )
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Figure 11: Updating Street Info.

**12 Pretty print the restaurant named “Viand Cafe”, omitting “grades” and “id” fields**

```
> db.restaurants.find(
... {
... "name": "Viand Cafe"
... },
... {
... "grades": 0,
... "_id": 0
... }
... ).pretty()
{
  "address" : "East 31st Street",
  "borough" : "Manhattan",
  "cuisine" : "American (New)",
  "name" : "Viand Cafe",
  "restaurant_id" : "40369753",
  "lastModified" : ISODate("2021-02-18T23:01:06.649Z")
}
```

Figure 12: Print updated Viand Cafe Info.

**13 show (only) the zipcode of all restaurants with a cuisine of “Other”**

```
> var zipcodes = []
> db.restaurants.find({"cuisine": "Other"}).forEach(function(u) { zipcodes.push(u.address.zipcode) })
> zipcodes
[ "10001", "10013", "10462", "10009" ]
```

Figure 13: Restaurants with zip code of "Other"

**14    change all restaurants with a cuisine of “Other”  
to “Category TBD”**

```
> db.restaurants.updateMany(  
... {  
... "cuisine": "Other"  
... },  
... {  
... $set:  
... {  
... "cuisine": "Category TBD"  
... }  
... }  
[... ]  
{ "acknowledged" : true, "matchedCount" : 4, "modifiedCount" : 4 }
```

Figure 14: Updating restaurants with zip code of "Other"

**15    How many restaurants have a cuisine of “Cat-  
egory TBD”?**

```
> db.restaurants.find(  
... {  
... "cuisine": "Category TBD"  
... },  
... ).length()  
4
```

Figure 15: Number of restaurants with cuisine of "Category TBD".