Readme

Instructions to Run(Q2)

```
mongo --host=mongo-csgy-6513-fall.db --authenticationDatabase=yl9822_db -u yl9822 -p yl9822 <./q2.js
```

Terminal Connection :

1.

```
conda activate bigdata-fall22
mongo --host=mongo-csgy-6513-fall.db --authenticationDatabase=yl9822_db -u yl9822 -p yl9822
```

Importing the file into DB

```
./mongoimport --host=mongo-csgy-6513-fall.db --collection=restaurants --type=json
--file='/home/jovyan/shared/restaurants.json' -u yl9822 -p yl9822 --db yl9822_db --jsonArray
```

2.

Queries

```
use yl9822_db
//1
print("Q1")
db.restaurants.countDocuments({}).pretty()
//2
print("Q2")
db.restaurants.find().pretty()
//3
print("Q3")
db.restaurants.find({},{restaurant_id:true,name:true,borough:true, cuisine:true}).pretty()
//4
print("Q4")
```

```
db.restaurants.find({},{restaurant_id:true,name:true,borough:true, cuisine:true,_id:0}).pretty()
//5
print("Q5")
db.restaurants.find({},{restaurant_id:true,name:true,borough:true,
"address.zipcode":true,_id:0}).pretty()
//6
print("Q6")
db.restaurants.find({"borough":"Bronx"}).pretty()
//7
print("Q7")
db.restaurants.aggregate([{$match: {borough:  "Bronx"}},{$limit:5} ]).pretty() or
db.restaurants.find({"borough": "Bronx"}).limit(5).pretty()
//8
print("Q8")
db.restaurants.find({"borough": "Bronx"}).skip(5).limit(5).pretty()
//9
print("Q9")
db.restaurants.find({"grades":{$elemMatch:{"score":{$gt : 85}}}}).pretty()
//10
print("Q10")
db.restaurants.find({"grades":{$elemMatch:{"score":{$gt : 80,$lt:100}}}}).pretty()
//11
print("Q11")
db.restaurants.find({"address.coord.1":{$lt : -95.754168}}).pretty()
//12
print("Q12")
db.restaurants.find({$and : [{"cuisine" : {$ne : "American"}}, {"address.coord.1" : {$lt :
-65.754168}}, {"grades.score" : {$gt : 70}}]}).pretty()
//13
print("Q13")
db.restaurants.find({"cuisine" : {$ne : "American"},"grades.score":{$gt:70},"address.coord.1":{$lt
:-65.754168}}).pretty()
```

```
//14
print("Q14")
db.restaurants.find({"cuisine" : {$ne :
"American"},"grades.grade":"A","borough":{$ne:"Brooklyn"}}).sort({"cuisine":-1}).pretty()
//15
print("Q15")
db.restaurants.find({name: /^Wil/},{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty()
//16
print("Q16")
db.restaurants.find({name: /ces$/},{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty()
//17
print("Q17")
db.restaurants.find({name: /.*Reg.*/},{"restaurant_id" : 1,"name":1,"borough":1,"cuisine"
:1}).pretty()
//18
print("Q18")
db.restaurants.find({ "borough": "Bronx" , $or : [{ "cuisine" : "American" },{ "cuisine": "Chinese"
}]}).pretty()
//19
print("Q19")
db.restaurants.find( {"borough" :{$in :["Staten Island","Queens","Bronx","Brooklyn"]}}, {
"restaurant_id" : 1, "name":1,"borough":1, "cuisine" :1 } ).pretty()
//20
print("Q20")
db.restaurants.find( {"borough" :{$nin :["Staten Island","Queens","Bronx","Brooklyn"]}}, {
"restaurant_id" : 1, "name":1,"borough":1, "cuisine" :1 } ).pretty()
//21
print("Q21")
db.restaurants.find( {"grades.score" :{$lt : 10} }, { "restaurant_id" : 1, "name":1,"borough":1,
"cuisine" :1 } )
//22
print("Q22")
```

```
db.restaurants.find( {$or: [   {name: /^Wil/},{"$and": [{"cuisine" : {$ne :"American "}},{"cuisine"
: {$ne :"Chinese"}}]} ]} ,{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1} ).pretty()
//23
print("Q23")
db.restaurants.find({"grades.date": ISODate("2014-08-11T00:00:00Z"),"grades.grade":"A"
,"grades.score" : 11},{"restaurant_id" : 1,"name":1,"grades":1}).pretty()
//24
print("Q24")
db.restaurants.find({ "grades.1.date": ISODate("2014-08-11T00:00:00Z"),"grades.1.grade":"A"
,"grades.1.score" : 9},{"restaurant_id" : 1,"name":1,"grades":1}).pretty()
//25
print("Q25")
db.restaurants.find({"address.coord.1":{$gt : 42,$lte : 52}},{"restaurant_id" :
1,"name":1,"address":1}).pretty()
```