

David Smith
STAT 4260
Assignment 9

1.

```
db.restaurants.find()
```

2.

```
db.restaurants.find({}, {"restaurant_id" : 1, "name" : 1, "borough" : 1, "cuisine" : 1})
```

3.

```
db.restaurants.find({}, {"restaurant_id" : 1, "name" : 1, "borough" : 1, "address.zipcode" : 1, "_id" : 0})
```

4.

```
db.restaurants.find({"borough" : "Bronx"})
```

5.

```
db.restaurants.find({"borough" : "Bronx"}, {"$limit" : 5})
```

6.

```
db.restaurants.find({"grades.score" : {"$gt" : 90}})
```

7.

```
db.restaurants.find({"grades" : {"$elemMatch" : {"score" : {"$gt" : 80, "$lt" : 100}}}})
```

8.

```
db.restaurants.find({"address.coord.0" : {"$lt" : -95.754168}})
```

9.

```
db.restaurants.find({"cuisine" : {"$ne" : "American"}, "grades.score" : {"$gt" : 70}, "address.coord.0" : {"$lt" : -65.754168}})
```

10.

```
db.restaurants.find({"cuisine" : {"$ne" : "American"}, "grades.grade" : "A",
```

"borough": "Brooklyn"}))

11.

```
db.restaurants.find({"name": {"$regex": /^Wil/}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

12.

```
db.restaurants.find({"name": {"$regex": /ces$/}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

13.

```
db.restaurants.find({"name": {"$regex": /. *Reg. */}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

14.

```
db.restaurants.find({"borough": "Bronx", "cuisine": {"$in": ["American", "Chinese"]}})
```

15.

```
db.restaurants.find({"borough": {"$in": ["Staten Island", "Queens", "Bronx", "Brooklyn"]}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

16.

```
db.restaurants.find({"borough": {"$nin": ["Staten Island", "Queens", "Bronx", "Brooklyn"]}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

17.

```
db.restaurants.find({"grades.score": {"$lte": 10}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

18.

```
db.restaurants.find({"name": {"$regex": /^Wil/},  
"cuisine": {"$nin": ["American", "Chinese"]}},  
{"restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1})
```

19.

```
db.restaurants.find({"grades": {"$elemMatch":  
{"grade": "A", "score": 11, "date": ISODate("2014-08-11T00:00:00Z")}}},
```

```
{“restaurant_id” : 1, “name” : 1, “grades” : 1})
```

20.

```
db.restaurants.find({“grades.1.grade” : “A”, “grades.1.score” : 9,  
“grades.1.date” : ISODate(“2014-08-11T00:00:00Z”)},  
{“restaurant_id” : 1, “name” : 1, “grades” : 1})
```

21.

```
db.restaurants.find({“address.coord.1” : {“$gt” : 42, “$lte” : 52}},  
{“restaurant_id” : 1, “name” : 1, “address” : 1})
```

22.

```
db.restaurants.find({}, {“$sort” : {“cuisine” : 1, “borough” : -1}})
```

23.

```
db.restaurants.find({“address.street” : {“$exists” : true}})
```

24.

```
db.restaurants.find({“grades.score” : {“$mod” : [7,0]}},  
{“restaurant_id” : 1, “name” : 1, “grades” : 1})
```