

## Homework 6

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### Section 1

```
> use homework6
switched to db homework6
> db.dropDatabase()
{ "dropped" : "homework6", "ok" : 1 }
> db.createCollection("test_collection")
{ "ok" : 1 }
> db.test_collection.drop()
true
> db.test_collection.insert({ title: "Mongo Db practice", description: "this is my first MongoDB document"})
WriteResult({ "nInserted" : 1 })
> db.test_collection.find().pretty()
{
  "_id" : ObjectId("5e9ba8a18a179fdeb193e92f"),
  "title" : "Mongo Db practice",
  "description" : "this is my first MongoDB document"
}
> db.test_collection.update({'title':'Mongo Db practice'}, {$set:{'title':'Updated MongoDB practice'}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.test_collection.remove({'status': "P"},1)
WriteResult({ "nRemoved" : 0 })
> db.test_collection.remove({'status: "P"})
WriteResult({ "nRemoved" : 0 })
> db.test_collection.remove({'title':'Updated MongoDB practice'})
WriteResult({ "nRemoved" : 1 })
>
```

### Section 2

1)

db.restaurants.find().count()

```
> use test
switched to db test
> db.restaurants.find().count()
25359
```

2)

db.restaurants.distinct("cuisine")

```
> db.restaurants.distinct("cuisine")
[
  "Afghan",
  "African",
  "American",
  "Armenian",
  "Asian",
  "Australian",
  "Bagels/Pretzels",
  "Bakery",
  "Bangladeshi",
  "Barbecue",
  "Bottled beverages, including water, sodas, juices, etc.",
  "Brazilian",
  "Caf  /Coffee/Tea",
  "Caf  /Coffee/Tea",
  "Cajun",
  "Californian",
  "Caribbean",
  "Chicken",
  "Chilean",
  "Chinese",
  "Chinese/Cuban",
  "Chinese/Japanese",
  "Continental",
  "Creole",
  "Creole/Cajun",
  "Czech",
  "Delicatessen",
  "Donuts",
  "Eastern European",
  "Egyptian",
  "English",
  "Ethiopian",
  "Filipino",
```

3)

db.restaurants.find({"address.zipcode":"11215","cuisine":"Indian"},{"name":6})

```
> db.restaurants.find({"address.zipcode":"11215","cuisine":"Indian"},{"name":6})
{"_id" : ObjectId("5e9b929c1ee086ea99ae5e65"), "name" : "Kinara Indian Restaurant" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae6e48"), "name" : "Baluchi'S" }
{"_id" : ObjectId("5e9b929d1ee086ea99ae9ba0"), "name" : "Kanan Indian Restaurant" }
{"_id" : ObjectId("5e9b929d1ee086ea99aeabe7"), "name" : "New Aarpan" }
{"_id" : ObjectId("5e9b929d1ee086ea99aeacc1"), "name" : "Indian Spice" }
```

4)

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

```
> db.restaurants.find({"borough": "Bronx","cuisine":{"$in":["American", "Chinese"]}}).count()
734
```

5)

```
db.restaurants.find({"name":"/Food/},{ "name":6})
```

```
> db.restaurants.find({"name":"/Food/},{ "name":6})
{"_id" : ObjectId("5e9b929c1ee086ea99ae4a7f"), "name" : "Wilken's Fine Food" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4a84"), "name" : "Glorious Food" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4a85"), "name" : "Seuda Foods" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4c25"), "name" : "American Museum Of Natural History Food Court" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4d40"), "name" : "Pax Wholesome Foods" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4eb1"), "name" : "Pax Wholesome Foods" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4f41"), "name" : "Fordham Fried Chicken & Sea Food" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae4f7c"), "name" : "Downtown Bakery Ii Mexican Food" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5096"), "name" : "Columbus Gourmet Food" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae507e"), "name" : "Food For Thought Library Cafe" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5096"), "name" : "Food Mart Deli" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5116"), "name" : "Food Merchants" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5136"), "name" : "Metropolitan Food Cafe Of Brooklyn College" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae526a"), "name" : "Food Fair Deli & Pizza" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5392"), "name" : "Tasty Fast Food" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae539d"), "name" : "The Food Hut" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5405"), "name" : "Food For Thought Catered Events" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5456"), "name" : "Tandoori Food & Bakery" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae548b"), "name" : "Snack Bar (Located Between A-B Between Fancy Food And Masters)" }
{"_id" : ObjectId("5e9b929c1ee086ea99ae5563"), "name" : "Reliable Food" }
```

6)

```
db.restaurants.aggregate([{$match: {cuisine:"Italian"}},{ $group: { "_id":"$borough", count:
{$sum:1}}},{ $sort:{count:-1}}])
```

```
db.restaurants.aggregate([{$match: {cuisine:"Italian"}},{ $group: { "_id":"$borough", count: {$sum:1}}},{ $sort:{count:-1}}])
{"_id" : "Manhattan", "count" : 621 }
{"_id" : "Brooklyn", "count" : 192 }
{"_id" : "Queens", "count" : 131 }
{"_id" : "Staten Island", "count" : 73 }
{"_id" : "Bronx", "count" : 52 }
```

7)

```
db.restaurants.aggregate([{$match:{$and:[{cuisine:"French"}, {borough:"Manhattan"}]}},{ $unwind:"$grades"},{$unwind:"$grades.score"}, {$group: { _id:"$name",
score:{$sum:"$grades.score"}}, {$sort:{score:-1}},{$limit:5})
```

```
> db.restaurants.aggregate([{$match:{$and:[{cuisine:"French"}, {borough:"Manhattan"}]}},{ $unwind:"$grades"},{$unwind:"$grades.score"}, {$group: { _id:"$name", score:{$sum:"$grades.score"}}, {$sort:{score:-1}},{$limit:5})
{"_id" : "Josephine", "score" : 143 }
{"_id" : "Petite Abeille", "score" : 142 }
{"_id" : "Financier Patisserie", "score" : 133 }
{"_id" : "Cafe Un Deux Trois", "score" : 132 }
{"_id" : "Tout Va Bien", "score" : 129 }
```