

## Benjamin Katz

### MongoCRUD3

#### 1)“How many restaurants are in the imported collection?”

```
test> db.restaurant2.countDocuments()
```

```
25359
```

#### 2)“Show three unique cuisine types from the set of restaurants.”

```
test> db.restaurant2.aggregate( [ { $group : { _id : "$cuisine" } }, {$limit: 3} ] ).pretty()
```

```
[ { _id: 'Indian' }, { _id: 'Soups' }, { _id: 'Chicken' } ]
```

#### 3)“Return restaurants from the collection.”

```
test> db.restaurant2.find({}, {restaurant_id: 1, name: 1, borough:1, cuisine:1, _id:0  
}).sort({restaurant_id:1}).limit(3).pretty()
```

```
[  
  {  
    borough: 'Bronx',  
    cuisine: 'Bakery',  
    name: 'Morris Park Bake Shop',  
    restaurant_id: '30075445'  
  },  
  {  
    borough: 'Brooklyn',  
    cuisine: 'Hamburgers',  
    name: "Wendy'S",  
    restaurant_id: '30112340'  
  },  
  {  
    borough: 'Manhattan',  
    cuisine: 'Irish',  
    name: 'Dj Reynolds Pub And Restaurant',  
    restaurant_id: '30191841'  
  }  
]
```

#### 4). “Return all restaurants whose borough is Brooklyn.”

```
test> db.restaurant2.find({borough: "Brooklyn"}, {restaurant_id: 1, name: 1, borough:1,  
cuisine:1, _id:0 }).sort({restaurant_id:1}).limit(3).pretty()
```

```
[  
  {  
    borough: 'Brooklyn',  
    cuisine: 'Hamburgers',  
    name: "Wendy'S",  
    restaurant_id: '30112340'  
  }  
]
```

```

},
{
  borough: 'Brooklyn',
  cuisine: 'American',
  name: 'Riviera Caterer',
  restaurant_id: '40356018'
},
{
  borough: 'Brooklyn',
  cuisine: 'Delicatessen',
  name: "Wilken'S Fine Food",
  restaurant_id: '40356483'
}

```

**5)“Return all restaurants whose borough is Brooklyn and whose cuisine is Jewish/Kosher.”**

```
test> db.restaurant2.find({borough: "Brooklyn", cuisine: "Jewish/Kosher"},{restaurant_id: 1,
name: 1, borough:1, cuisine:1, _id:0 }).sort({restaurant_id:1}).limit(3).pretty()
```

```

[
  {
    borough: 'Brooklyn',
    cuisine: 'Jewish/Kosher',
    name: 'Seuda Foods',
    restaurant_id: '40360045'
  },
  {
    borough: 'Brooklyn',
    cuisine: 'Jewish/Kosher',
    name: 'Kosher Bagel Hole',
    restaurant_id: '40364220'
  },
  {
    borough: 'Brooklyn',
    cuisine: 'Jewish/Kosher',
    name: 'Mill Basin Kosher Deli',
    restaurant_id: '40368207'
  }
]

```

**6). “Return all restaurants whose cuisine is Jewish/Kosher and whose name begins with Piz.”**

```
test> db.restaurant2.find({name: {$regex:"^Piz.* "}, cuisine: "Jewish/Kosher"},{restaurant_id: 1,
name: 1, borough:1, cuisine:1, _id:0 }).sort({restaurant_id:1}).limit(3).pretty()
```

```

[
  {
    borough: 'Queens',

```

```

    cuisine: 'Jewish/Kosher',
    name: 'Pizza Palace Cafe',
    restaurant_id: '41451780'
  },
  {
    borough: 'Brooklyn',
    cuisine: 'Jewish/Kosher',
    name: 'Pizza King',
    restaurant_id: '41611858'
  },
  {
    borough: 'Brooklyn',
    cuisine: 'Jewish/Kosher',
    name: 'Pizza World Cafe',
    restaurant_id: '41630478'
  }
}

```

**7). “Return all restaurants that are neither in Brooklyn or in Manhattan.”**

```
test> db.restaurant2.find({borough: {$nin: ["Brooklyn", "Manhattan"]}}, {restaurant_id: 1, name: 1, borough: 1, cuisine: 1, _id: 0 }).sort({restaurant_id: 1}).limit(3).pretty()
```

```

[
  {
    borough: 'Bronx',
    cuisine: 'Bakery',
    name: 'Morris Park Bake Shop',
    restaurant_id: '30075445'
  },
  {
    borough: 'Queens',
    cuisine: 'Jewish/Kosher',
    name: 'Tov Kosher Kitchen',
    restaurant_id: '40356068'
  },
  {
    borough: 'Queens',
    cuisine: 'American',
    name: 'Brunos On The Boulevard',
    restaurant_id: '40356151'
  }
]

```

**8)“Return all restaurants whose cuisine is either Jewish/Kosher or Japanese.”**

```
test> db.restaurant2.find({cuisine: {$in: ["Jewish/Kosher", "Japanese"]}}, {restaurant_id: 1, name: 1, borough: 1, cuisine: 1, _id: 0 }).sort({restaurant_id: 1}).limit(3).pretty()
```

```
[
```

```
{
  borough: 'Queens',
  cuisine: 'Jewish/Kosher',
  name: 'Tov Kosher Kitchen',
  restaurant_id: '40356068'
},
{
  borough: 'Staten Island',
  cuisine: 'Jewish/Kosher',
  name: 'Kosher Island',
  restaurant_id: '40356442'
},
{
  borough: 'Brooklyn',
  cuisine: 'Jewish/Kosher',
  name: 'Seuda Foods',
  restaurant_id: '40360045'
}
```

**9)“Return all restaurants whose cuisine is both Jewish/Kosher and American.”**

```
test> db.restaurant2.find({cuisine: {$all: ["Jewish/Kosher","American"]}}, {restaurant_id: 1, _id:0})
.sort({restaurant_id:1}).limit(3).pretty()
```

**10)“Return all restaurants whose score is greater than 90.”**

```
test> db.restaurant2.find({"grades.score": {$gt: 90}}, {restaurant_id: 1, _id:0})
.sort({restaurant_id:1}).limit(3).pretty()
[
  { restaurant_id: '40372466' },
  { restaurant_id: '40381295' },
  { restaurant_id: '40393488' }
```

**11). “Return all restaurants whose score is greater than 80 and less than 90.”**

```
test> db.restaurant2.find({"grades":{"$elemMatch":{"score":{"$gt: 80, $lt:90}}}}, {restaurant_id: 1, _id:0 })
.sort({restaurant_id:1}).limit(3).pretty()
[
  { restaurant_id: '40756344' },
  { restaurant_id: '40979431' },
  { restaurant_id: '40987023' }
```

**12). “Return all restaurants with exactly two grades.”**

```
test> db.restaurant2.find({grades: {$size: 2}}, {restaurant_id: 1, _id:0})
.sort({restaurant_id:1}).limit(3).pretty()
```

```
[
  { restaurant_id: '40364363' },
  { restaurant_id: '40369608' },
  { restaurant_id: '40371807' }
]
```

**13)“Return all restaurants that ever received a grade of A.”**

```
test> db.restaurant2.find({"grades.grade": "A"},{restaurant_id: 1, _id:0
}).sort({restaurant_id:1}).limit(3).pretty()
```

```
[
  { restaurant_id: '30075445' },
  { restaurant_id: '30112340' },
  { restaurant_id: '30191841' }
]
```