

MongoDB Complex Queries

```
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, "cuisine" :1, "_id":0});

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

5) db.restaurants.find({"borough": "Bronx"}).limit(5);

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

7) db.restaurants.find({"borough": "Bronx"}).skip(5).limit(5);

8) db.restaurants.find({grades:{$elemMatch:{"score":{$gt:90}}}});

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

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

11) db.restaurants.find
    (
        {
            $and:
            [
                {"cuisine":{$ne:"American "}},
                {"grades.score":{$gt : 70}},
                {"address.coord":{$lt : -65.754168}}
            ]
        }
    );

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

13) db.restaurants.find

```
(
    {
        "cuisine":{"$ne : "American "},
        "grades.grade":"A",
        "borough": {$ne:"Brooklyn"}
    }
).sort({"cuisine":-1});
```

14) db.restaurants.find

```
(
    {name: /^Wil/},
    {
        "restaurant_id": 1,
        "name":1,"borough":1,
        "cuisine":1
    }
);
```

15) db.restaurants.find

```
(
    {name: /ces$/},
    {
        "restaurant_id": 1,
        "name":1,"borough":1,
        "cuisine" :1
    }
);
```

16) db.restaurants.find

```
(
    {"name":/.*Reg.*/},
    {
        "restaurant_id": 1,
        "name":1,"borough":1,
    }
);
```

```

        "cuisine" :1
    }
    );
17) db.restaurants.find
    (
        {
            "borough": "Bronx",
            $or:
            [
                { "cuisine" : "American " },
                { "cuisine" : "Chinese" }
            ]
        }
    );
18) db.restaurants.find
    (
        {"borough" :{$in :["Staten
Island","Queens","Bronx","Brooklyn"]}},
        {
            "restaurant_id" : 1,
            "name":1,"borough":1,
            "cuisine" :1
        }
    );
19) db.restaurants.find
    (
        {"borough" :{$nin :["Staten
Island","Queens","Bronx","Brooklyn"]}},
        {
            "restaurant_id" : 1,
            "name":1,"borough":1,
            "cuisine" :1
        }
    )

```

```

    );
20) db.restaurants.find
    (
        {
            "grades.score" :
            {
                $not:
                {$gt : 10}
            }
        },
        {
            "restaurant_id" : 1,
            "name":1,"borough":1,
            "cuisine" :1
        }
    );

```

```

21) db.restaurants.find
    (
        {$or: [
            {name: /^Wil/},
            {"$and": [
                {"cuisine" : {$ne : "American "}},
                {"cuisine" : {$ne : "Chinees"}}
            ]}
        ]}
        ,{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1}
    );

```

```

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

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        "grades.score" : 11
    },
    {"restaurant_id" : 1,"name":1,"grades":1}
);

23) 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}
);

24) db.restaurants.find(
    {
        "address.coord.1": {$gt : 42, $lte : 52}
    },
    {"restaurant_id" :
1,"name":1,"address":1,"coord":1}
);

25) db.restaurants.find().sort({"name":1});
26) db.restaurants.find().sort(
    {"name": -1}
);

27) db.restaurants.find().sort(
    {"cuisine":1,"borough" : -1,}
);28)

29) db.restaurants.find(
    {"address.coord" :
        {$type : 1}
    }
);

30) db.restaurants.find(
    {"grades.score" :

```

```
        {$mod : [7,0]}
    },
    {"restaurant_id" : 1,"name":1,"grades":1}
);
```

```
31) db.restaurants.find(
    { name :
      { $regex : "mon.*", $options: "i" }
    },
    {
      "name":1,
      "borough":1,
      "address.coord":1,
      "cuisine" :1
    }
);
```

```
32) db.restaurants.find(
    { name :
      { $regex : /^Mad/i, }
    },
    {
      "name":1,
      "borough":1,
      "address.coord":1,
      "cuisine" :1
    }
);
```