# MongoDB – Complex Queries

## MongoDB Exercises – With the Restaurants Data set

## Exercise Question

1) Display all documents in the collection restaurants

```
> use restaurants
switched to db restaurants
> show dbs
admin           0.000GB
config          0.000GB
local           0.000GB
population       0.002GB
restaurants     0.001GB
> show collections
addresses
> db.addresses.find().pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"),
        "address" : {
                "building" : "2780",
                "coord" : [
                        -73.98241999999999,
                        40.579505
                ],
                "street" : "Stillwell Avenue",
                "zipcode" : "11224"
```

```
                                ],
                                "street" : "Stillwell Avenue",
                                "zipcode" : "11224"
                        },
                        "borough" : "Brooklyn",
                        "cuisine" : "American ",
                        "grades" : [
                                {
                                        "date" : ISODate("2014-06-10T00:00:00Z"),
                                        "grade" : "A",
                                        "score" : 5
                                },
                                {
                                        "date" : ISODate("2013-06-05T00:00:00Z"),
                                        "grade" : "A",
                                        "score" : 7
                                },
                                {
                                        "date" : ISODate("2012-04-13T00:00:00Z"),
                                        "grade" : "A",
                                        "score" : 12
                                },
                                {
                                        "date" : ISODate("2011-10-12T00:00:00Z"),
                                        "grade" : "A",
                                        "score" : 12
                                }
                        ],
```

2)  Display restaurant_id, name, borough, and cuisine in the collection restaurant.

```
> db.addresses.find({},{"restaurant_id":1, "name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera
 Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ca"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'
S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cb"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" :
 "Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cc"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynold
s Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cd"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov K
osher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ce"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilk
en'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park B
ake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia"
, "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d1"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ic
es", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d2"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East
 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d3"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May K
itchen", "restaurant_id" : "40358429" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d4"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina
Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d5"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seu
da Foods", "restaurant_id" : "40360045" }
```

3) Display fields restaurant_id, name, borough and cuisine, but exclude the _field for documents in collection restaurant.

```
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442"
}
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "3019
1841" }
```

4) Display fields restaurant_id, name, borough and zipcode, but exclude the _field for documents in collection restaurant.

```
> db.addresses.find({},{"restaurant_id":1,"name":1,"borough":1,"address.zipcode":1,"_id":0})
{ "address" : { "zipcode" : "11224" }, "borough" : "Brooklyn", "name" : "Riviera Caterer", "restaurant_id" : "4035
6018" }
{ "address" : { "zipcode" : "11225" }, "borough" : "Brooklyn", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "address" : { "zipcode" : "10314" }, "borough" : "Staten Island", "name" : "Kosher Island", "restaurant_id" : "4
0356442" }
{ "address" : { "zipcode" : "10019" }, "borough" : "Manhattan", "name" : "Dj Reynolds Pub And Restaurant", "restau
rant_id" : "30191841" }
{ "address" : { "zipcode" : "11374" }, "borough" : "Queens", "name" : "Tov Kosher Kitchen", "restaurant_id" : "403
56068" }
{ "address" : { "zipcode" : "11234" }, "borough" : "Brooklyn", "name" : "Wilken'S Fine Food", "restaurant_id" : "4
0356483" }
{ "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "name" : "Morris Park Bake Shop", "restaurant_id" : "3
0075445" }
```

5) To display first 5 restaurants in the borough Bronx.

```
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.8484
7 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [
{ "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00
Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2013-01-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "d
ate" : ISODate("2011-11-23T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-03-10T00:00:00Z"),
"grade" : "B", "score" : 14 } ], "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "address" : { "building" : "2300", "coord" : [ -73.8786113, 40.850
2883 ], "street" : "Southern Boulevard", "zipcode" : "10460" }, "borough" : "Bronx", "cuisine" : "American ", "gra
des" : [ { "date" : ISODate("2014-05-28T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-06-19
T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2012-06-15T00:00:00Z"), "grade" : "A", "score" : 3
} ], "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ea"), "address" : { "building" : "1006", "coord" : [ -73.84856870000002,
40.8903781 ], "street" : "East 233 Street", "zipcode" : "10466" }, "borough" : "Bronx", "cuisine" : "Ice Cream, G
elato, Yogurt, Ices", "grades" : [ { "date" : ISODate("2014-04-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "d
ate" : ISODate("2013-09-05T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-02-21T00:00:00Z"),
"grade" : "A", "score" : 9 }, { "date" : ISODate("2012-07-03T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date"
: ISODate("2011-07-11T00:00:00Z"), "grade" : "A", "score" : 5 } ], "name" : "Carvel Ice Cream", "restaurant_id" :
"40363093" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7eb"), "address" : { "building" : "1236", "coord" : [ -73.8893654, 40.813
76179999999 ], "street" : "238 Spofford Ave", "zipcode" : "10474" }, "borough" : "Bronx", "cuisine" : "Chinese", "
grades" : [ { "date" : ISODate("2013-12-30T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-01-
08T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-06-12T00:00:00Z"), "grade" : "B", "score"
: 15 } ], "name" : "Happy Garden", "restaurant_id" : "40363289" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7fc"), "address" : { "building" : "277", "coord" : [ -73.8941893, 40.8634
684 ], "street" : "East Kingsbridge Road", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "gra
des" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-09-26
T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-03-19T00:00:00Z"), "grade" : "A", "score" :
10 }, { "date" : ISODate("2012-08-29T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-08-17T00
:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Happy Garden", "restaurant_id" : "40364296" }
```

6) Display all the restaurants in the borough Bronx.

```
> db.addresses.find({borough:"Bronx"})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.8484
47 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [
 { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00
Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2013-01-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "d
ate" : ISODate("2011-11-23T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-03-10T00:00:00Z"),
"grade" : "B", "score" : 14 } ], "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "address" : { "building" : "2300", "coord" : [ -73.8786113, 40.850
2883 ], "street" : "Southern Boulevard", "zipcode" : "10460" }, "borough" : "Bronx", "cuisine" : "American ", "gra
des" : [ { "date" : ISODate("2014-05-28T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-06-19
T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2012-06-15T00:00:00Z"), "grade" : "A", "score" : 3
 } ], "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ea"), "address" : { "building" : "1006", "coord" : [ -73.84856870000002,
 40.8903781 ], "street" : "East 233 Street", "zipcode" : "10466" }, "borough" : "Bronx", "cuisine" : "Ice Cream, G
elato, Yogurt, Ices", "grades" : [ { "date" : ISODate("2014-04-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "d
ate" : ISODate("2013-09-05T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-02-21T00:00:00Z"),
 "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-07-03T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date"
 : ISODate("2011-07-11T00:00:00Z"), "grade" : "A", "score" : 5 } ], "name" : "Carvel Ice Cream", "restaurant_id" :
 "40363093" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7eb"), "address" : { "building" : "1236", "coord" : [ -73.8893654, 40.813
76179999999 ], "street" : "238 Spofford Ave", "zipcode" : "10474" }, "borough" : "Bronx", "cuisine" : "Chinese", "
grades" : [ { "date" : ISODate("2013-12-30T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-01-
08T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-06-12T00:00:00Z"), "grade" : "B", "score"
: 15 } ], "name" : "Happy Garden", "restaurant_id" : "40363289" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7fc"), "address" : { "building" : "277", "coord" : [ -73.8941893, 40.8634
684 ], "street" : "East Kingsbridge Road", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "gra
des" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-09-26
T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-03-19T00:00:00Z"), "grade" : "A", "score" :
10 }, { "date" : ISODate("2012-08-29T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-08-17T00
:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Happy Garden", "restaurant_id" : "40364296" }
```

7) Display next 5 restaurants after skipping first 5

```
> db.addresses.find({borough:"Bronx"}).skip(5).limit(5)
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a802"), "address" : { "building" : "658", "coord" : [ -73.81363999999999,
40.82941100000001 ], "street" : "Clarence Ave", "zipcode" : "10465" }, "borough" : "Bronx", "cuisine" : "American
", "grades" : [ { "date" : ISODate("2014-06-21T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2012
-07-11T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Manhem Club", "restaurant_id" : "40364363" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a81b"), "address" : { "building" : "2222", "coord" : [ -73.84971759999999,
 40.8304811 ], "street" : "Haviland Avenue", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "American ",
"grades" : [ { "date" : ISODate("2014-12-18T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-05
-01T00:00:00Z"), "grade" : "B", "score" : 17 }, { "date" : ISODate("2013-03-14T00:00:00Z"), "grade" : "A", "score"
 : 12 }, { "date" : ISODate("2012-09-20T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-02-08T
00:00:00Z"), "grade" : "B", "score" : 19 } ], "name" : "The New Starling Athletic Club Of The Bronx", "restaurant_
id" : "40364956" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a837"), "address" : { "building" : "72", "coord" : [ -73.92506, 40.8275556
 ], "street" : "East  161 Street", "zipcode" : "10451" }, "borough" : "Bronx", "cuisine" : "American ", "grades" :
 [ { "date" : ISODate("2014-04-15T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-11-14T00:00:
00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2013-07-29T00:00:00Z"), "grade" : "A", "score" : 10 }, {
"date" : ISODate("2012-12-31T00:00:00Z"), "grade" : "B", "score" : 15 }, { "date" : ISODate("2012-05-30T00:00:00Z"
), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-01-09T00:00:00Z"), "grade" : "A", "score" : 10 }, { "da
te" : ISODate("2011-08-15T00:00:00Z"), "grade" : "C", "score" : 37 } ], "name" : "Yankee Tavern", "restaurant_id"
: "40365499" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a849"), "address" : { "building" : "331", "coord" : [ -73.87786539999999,
40.8724377 ], "street" : "East  204 Street", "zipcode" : "10467" }, "borough" : "Bronx", "cuisine" : "Irish", "gra
des" : [ { "date" : ISODate("2014-08-26T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-03-26
T00:00:00Z"), "grade" : "B", "score" : 23 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "grade" : "A", "score" :
13 }, { "date" : ISODate("2012-12-18T00:00:00Z"), "grade" : "B", "score" : 27 }, { "date" : ISODate("2011-10-20T00
:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Mcdwyers Pub", "restaurant_id" : "40365893" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a862"), "address" : { "building" : "5820", "coord" : [ -73.9002615, 40.885
186 ], "street" : "Broadway", "zipcode" : "10463" }, "borough" : "Bronx", "cuisine" : "American ", "grades" : [ {
"date" : ISODate("2014-02-26T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-10-09T00:00:00Z")
, "grade" : "B", "score" : 19 }, { "date" : ISODate("2013-05-15T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date
```

8) Find the restaurants who achieved a score more than 90

```
> db.addresses.find({"grades.score":{$gt:90}}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5a927"),
        "address" : {
                "building" : "65",
                "coord" : [
                        -73.9782725,
                        40.7624022
                ],
                "street" : "West    54 Street",
                "zipcode" : "10019"
        },
        "borough" : "Manhattan",
        "cuisine" : "American ",
        "grades" : [
                {
                        "date" : ISODate("2014-08-22T00:00:00Z"),
                        "grade" : "A",
                        "score" : 11
                },
                {
                        "date" : ISODate("2014-03-28T00:00:00Z"),
                        "grade" : "C",
                        "score" : 131
                },
                {
                        "date" : ISODate("2013-09-25T00:00:00Z"),
                        "grade" : "A",
                        "score" : 11
                },
```

9) Restaurants that achieved more than 80 but less than 100

```
> db.addresses.find({"grades.score":{$gt:80,$lt:100}}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5a927"),
        "address" : {
                "building" : "65",
                "coord" : [
                        -73.9782725,
                        40.7624022
                ],
                "street" : "West    54 Street",
                "zipcode" : "10019"
        },
        "borough" : "Manhattan",
        "cuisine" : "American ",
```

10) Restaurant which  locate in latitude value less thn -95.754168

```
> db.addresses.find({"address.coord":{$lt:-95.754168}})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ae0d"), "address" : { "building" : "3707", "coord" : [ -101.8945214, 33.51
97474 ], "street" : "82 Street", "zipcode" : "11372" }, "borough" : "Queens", "cuisine" : "American ", "grades" :
[ { "date" : ISODate("2014-06-04T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-11-07T00:00:
00Z"), "grade" : "B", "score" : 19 }, { "date" : ISODate("2013-05-17T00:00:00Z"), "grade" : "A", "score" : 11 }, {
 "date" : ISODate("2012-08-29T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-04-03T00:00:00Z
"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-11-16T00:00:00Z"), "grade" : "A", "score" : 7 } ], "na
me" : "Burger King", "restaurant_id" : "40534067" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b17e"), "address" : { "building" : "15259", "coord" : [ -119.6368672, 36.2
504996 ], "street" : "10 Avenue", "zipcode" : "11357" }, "borough" : "Queens", "cuisine" : "Italian", "grades" : [
 { "date" : ISODate("2014-09-04T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2014-03-26T00:00:0
0Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-03-04T00:00:00Z"), "grade" : "A", "score" : 10 }, { "
date" : ISODate("2012-09-27T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-04-20T00:00:00Z")
, "grade" : "A", "score" : 7 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "C", "score" : 34 } ], "name
" : "Cascarino'S", "restaurant_id" : "40668681" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b623"), "address" : { "building" : "60", "coord" : [ -111.9975205, 42.0970
258 ], "street" : "West Side Highway", "zipcode" : "10006" }, "borough" : "Manhattan", "cuisine" : "Japanese", "gr
ades" : [ { "date" : ISODate("2014-03-20T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-06-28
T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-07-05T00:00:00Z"), "grade" : "A", "score" :
13 }, { "date" : ISODate("2011-07-27T00:00:00Z"), "grade" : "A", "score" : 2 } ], "name" : "Sports Center At Chels
ea Piers (Sushi Bar)", "restaurant_id" : "40882356" }
>
```

11) Restaurants that do not prepare cuisine of "American" and grade score more than 70 and located in latitude less than -65.754168

```
> db.addresses.find({$and:[{"cuisine":{$ne:"American"}},{"grades.score":{$gt:70}},{"address.coord":{$lt:-65.754168
}}]})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a927"), "address" : { "building" : "65", "coord" : [ -73.9782725, 40.76240
22 ], "street" : "West   54 Street", "zipcode" : "10019" }, "borough" : "Manhattan", "cuisine" : "American ", "gra
des" : [ { "date" : ISODate("2014-08-22T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2014-03-28
T00:00:00Z"), "grade" : "C", "score" : 131 }, { "date" : ISODate("2013-09-25T00:00:00Z"), "grade" : "A", "score" :
 11 }, { "date" : ISODate("2013-04-08T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2012-10-15T0
0:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-10-19T00:00:00Z"), "grade" : "A", "score" : 13
 } ], "name" : "Murals On 54/Randolphs'S", "restaurant_id" : "40372466" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a9c9"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266
739 ], "street" : "East 6 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades"
: [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2014-01-14T00:00
:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-05-30T00:00:00Z"), "grade" : "A", "score" : 12 }, {
 "date" : ISODate("2013-04-24T00:00:00Z"), "grade" : "P", "score" : 2 }, { "date" : ISODate("2012-10-01T00:00:00Z"
), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-04-06T00:00:00Z"), "grade" : "C", "score" : 92 }, { "dat
e" : ISODate("2011-11-03T00:00:00Z"), "grade" : "C", "score" : 41 } ], "name" : "Gandhi", "restaurant_id" : "40381
295" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5aa57"), "address" : { "building" : "14", "coord" : [ -73.9883909, 40.74073
5 ], "street" : "East   23 Street", "zipcode" : "10010" }, "borough" : "Manhattan", "cuisine" : "American ", "grad
es" : [ { "date" : ISODate("2014-10-28T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2014-04-10T0
0:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-08-08T00:00:00Z"), "grade" : "C", "score" : 58
 }, { "date" : ISODate("2013-02-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-06-15T00:0
0:00Z"), "grade" : "C", "score" : 71 } ], "name" : "Live Bait Bar & Restaurant", "restaurant_id" : "40387237" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ab28"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.74579
39 ], "street" : "Madison Avenue", "zipcode" : "10016" }, "borough" : "Manhattan", "cuisine" : "Pizza/Italian", "g
rades" : [ { "date" : ISODate("2014-12-24T00:00:00Z"), "grade" : "Z", "score" : 31 }, { "date" : ISODate("2014-06-
17T00:00:00Z"), "grade" : "C", "score" : 98 }, { "date" : ISODate("2013-12-12T00:00:00Z"), "grade" : "C", "score"
: 32 }, { "date" : ISODate("2013-05-22T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2012-05-02T
00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Bella Napoli", "restaurant_id" : "40393488" }
```

12) Restaurants that do not prepare cuisine of "American" and grade score more than 70 and located in longitude less than-65.754168

```
> db.restaurants.find({$and:[{"cuisine":{$ne:"American"}},{"grades.score":{$gt:70}},{"address.coord":{$lt:-65.7541
68}}]})
```

13) Do not prepare cuisine of "American" and grade 'A' and not belong to borough

```
> db.addresses.find({"cuisine":{$ne:"American"},"grades.grade":"A", "borough":{$ne:"Brooklyn"}}).sort({"cuisine":-
1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5aed6"), "address" : { "building" : "89", "coord" : [ -73.9995899, 40.71680
15 ], "street" : "Baxter Street", "zipcode" : "10013" }, "borough" : "Manhattan", "cuisine" : "Vietnamese/Cambodia
n/Malaysia", "grades" : [ { "date" : ISODate("2014-08-21T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : IS
ODate("2013-08-31T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-04-11T00:00:00Z"), "grade"
: "C", "score" : 3 }, { "date" : ISODate("2012-10-17T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate
("2012-05-15T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Thai Son", "restaurant_id" : "40559606" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5af8f"), "address" : { "building" : "8278", "coord" : [ -73.88143509999999,
 40.7412552 ], "street" : "Broadway", "zipcode" : "11373" }, "borough" : "Queens", "cuisine" : "Vietnamese/Cambodi
an/Malaysia", "grades" : [ { "date" : ISODate("2014-06-12T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : I
SODate("2013-05-20T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-12-26T00:00:00Z"), "grade"
 : "A", "score" : 10 }, { "date" : ISODate("2012-12-03T00:00:00Z"), "grade" : "P", "score" : 5 }, { "date" : ISODa
te("2012-05-04T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "Pho Bac Vietnamese Seafood Cuisine", "resta
urant_id" : "40578058" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b38d"), "address" : { "building" : "148", "coord" : [ -74.000254, 40.71727
27 ], "street" : "Centre Street", "zipcode" : "10013" }, "borough" : "Manhattan", "cuisine" : "Vietnamese/Cambodia
n/Malaysia", "grades" : [ { "date" : ISODate("2014-10-01T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISO
Date("2014-05-19T00:00:00Z"), "grade" : "C", "score" : 5 }, { "date" : ISODate("2013-11-15T00:00:00Z"), "grade" :
"B", "score" : 14 }, { "date" : ISODate("2013-03-08T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate
("2012-05-22T00:00:00Z"), "grade" : "B", "score" : 23 }, { "date" : ISODate("2011-10-27T00:00:00Z"), "grade" : "A"
, "score" : 9 } ], "name" : "Nha-Trang Centre Vietnam Restaurant", "restaurant_id" : "40751226" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5aa78"), "address" : { "building" : "300", "coord" : [ -73.985568, 40.73074
96 ], "street" : "East 12 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Vegetarian", "grad
es" : [ { "date" : ISODate("2014-02-05T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-04-24T
00:00:00Z"), "grade" : "B", "score" : 19 }, { "date" : ISODate("2012-01-17T00:00:00Z"), "grade" : "A", "score" : 1
2 }, { "date" : ISODate("2011-07-25T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Angelica Kitchen", "re
staurant_id" : "40388281" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ac2c"), "address" : { "building" : "1307", "coord" : [ -73.9589834, 40.771
41839999999 ], "street" : "3 Avenue", "zipcode" : "10021" }, "borough" : "Manhattan", "cuisine" : "Vegetarian", "g
```

14) Display restaurant_id, name, borough and cuisine for restaurants that contain Wil as first three letters of its name

```
> db.addresses.find({name:/^Wil/},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ce"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilk
en'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia"
, "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b5da"), "borough" : "Bronx", "cuisine" : "Pizza", "name" : "Wilbel Pizza",
 "restaurant_id" : "40871979" }
>
```

15) Display restaurant_id, name, borough and cuisine for restaurants that contain ces as last three letters of its name

```
> db.addresses.find({name:/ces$/},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ac59"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Pieces
", "restaurant_id" : "40399910" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ad19"), "borough" : "Queens", "cuisine" : "American ", "name" : "S.M.R Res
taurant Services", "restaurant_id" : "40403857" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ad1f"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Good S
hepherd Services", "restaurant_id" : "40403989" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b1d2"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices
", "name" : "The Ice Box-Ralph'S Famous Italian Ices", "restaurant_id" : "40690899" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b3da"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Ali
ces", "restaurant_id" : "40782042" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b5f5"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Re: So
urces", "restaurant_id" : "40876068" }
>
```

16) Display restaurant_id, name, borough and cuisine for restaurants that contain Reg as three letters somewhere in its name

```
> db.addresses.find({name:/.*Reg.*/},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d4"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina
Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a8ca"), "borough" : "Manhattan", "cuisine" : "Café/Coffee/Tea", "name" : "
Caffe Reggio", "restaurant_id" : "40369418" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a9db"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Regenc
y Hotel", "restaurant_id" : "40382679" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5acfb"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Regenc
y Whist Club", "restaurant_id" : "40402377" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5adda"), "borough" : "Queens", "cuisine" : "American ", "name" : "Rego Park
 Cafe", "restaurant_id" : "40523342" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b450"), "borough" : "Queens", "cuisine" : "Pizza", "name" : "Regina Pizza"
, "restaurant_id" : "40801325" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b664"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Regal
Entertainment Group", "restaurant_id" : "40891782" }
```

17) Find rest which belong to borough Bronx and prepare American or Chinese dish.

```
> db.addresses.find({"borough":"Bronx",$or:[{"cuisine":"Chinese"},{"cuisine":"American"}]})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7eb"), "address" : { "building" : "1236", "coord" : [ -73.8893654, 40.813
76179999999 ], "street" : "238 Spofford Ave", "zipcode" : "10474" }, "borough" : "Bronx", "cuisine" : "Chinese", "
grades" : [ { "date" : ISODate("2013-12-30T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-01-
08T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-06-12T00:00:00Z"), "grade" : "B", "score"
: 15 } ], "name" : "Happy Garden", "restaurant_id" : "40363289" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7fc"), "address" : { "building" : "277", "coord" : [ -73.8941893, 40.8634
684 ], "street" : "East Kingsbridge Road", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "gra
des" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-09-26
T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-03-19T00:00:00Z"), "grade" : "A", "score" :
10 }, { "date" : ISODate("2012-08-29T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-08-17T00
:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Happy Garden", "restaurant_id" : "40364296" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ad74"), "address" : { "building" : "2459", "coord" : [ -73.8929629, 40.860
1605 ], "street" : "Webster Avenue", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" :
 [ { "date" : ISODate("2014-12-23T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-01-07T00:00:
00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2012-12-28T00:00:00Z"), "grade" : "A", "score" : 11 }, {
"date" : ISODate("2012-07-18T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "China Wok Ii", "restaurant_id
" : "40510328" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ae00"), "address" : { "building" : "2102", "coord" : [ -73.82609699999999,
 40.8687177 ], "street" : "Bartow Ave", "zipcode" : "10475" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades
" : [ { "date" : ISODate("2014-08-04T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-02-21T00:
00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2013-05-30T00:00:00Z"), "grade" : "B", "score" : 17 },
 { "date" : ISODate("2012-04-13T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Dragon City", "restaurant_
id" : "40529203" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5aeaa"), "address" : { "building" : "3511", "coord" : [ -73.9100876, 40.886
0444 ], "street" : "Johnson Avenue", "zipcode" : "10463" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" :
 [ { "date" : ISODate("2014-07-02T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-11-06T00:00:
00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-03-29T00:00:00Z"), "grade" : "B", "score" : 17 }, {
"date" : ISODate("2012-06-20T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "Hunan Balcony", "restaurant_i
d" : "40551996" }
```

18) Find the restaurant_id,name,borough and cuisine which belong to borough Staten Island or Queens or Bronxor Brooklyn

```
> db.addresses.find({$or:[{"borough":"Staten Island"},{"borough":"Queens"},{"borough":"bronxor Brooklyn"}]},{"rest
aurant_id":1, "name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cb"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" :
 "Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cd"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov K
osher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d6"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On
 The Boulevard", "restaurant_id" : "40356151" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d7"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices
", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7db"), "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Sal'S
Deli", "restaurant_id" : "40361618" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7dd"), "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Steve
Chu'S Deli & Grocery", "restaurant_id" : "40361998" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7e6"), "borough" : "Queens", "cuisine" : "Chinese", "name" : "Ho Mei Rest
aurant", "restaurant_id" : "40362432" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ee"), "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Tony'S
 Deli", "restaurant_id" : "40363333" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7f0"), "borough" : "Staten Island", "cuisine" : "Delicatessen", "name" :
"Bagels N Buns", "restaurant_id" : "40363427" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7f1"), "borough" : "Queens", "cuisine" : "Bagels/Pretzels", "name" : "Hot
 Bagels", "restaurant_id" : "40363565" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7f2"), "borough" : "Queens", "cuisine" : "American ", "name" : "Snack Tim
e Grill", "restaurant_id" : "40363590" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7f8"), "borough" : "Staten Island", "cuisine" : "Ice Cream, Gelato, Yogur
t, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40363834" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7fa"), "borough" : "Queens", "cuisine" : "American ", "name" : "Terminal
Cafe/Yankee Clipper", "restaurant_id" : "40364262" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7fb"), "borough" : "Staten Island", "cuisine" : "Delicatessen", "name" :
"Plaza Bagels & Deli", "restaurant_id" : "40364286" }
```

19) Find the restaurant_id,name,borough and cuisine which are not belonging to borough Staten Island or Queens or Bronxor Brooklyn

```
> db.addresses.find({$or:[{"borough":"Staten Island"},{"borough":{$ne:"Queens"}},{"borough":{$ne:"Bronxor Brooklyn
"}}]},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera
Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ca"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'
S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cb"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" :
"Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cc"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynold
s Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cd"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov K
osher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ce"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilk
en'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park B
ake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia"
, "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d1"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ic
es", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d2"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East
66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d3"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May K
itchen", "restaurant_id" : "40358429" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d4"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina
Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d5"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seu
da Foods", "restaurant_id" : "40360045" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d6"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On
The Boulevard", "restaurant_id" : "40356151" }
```

20) Find the restaurant_id,borough and cuisine for res which achieved score which is not more than 10

```
> db.addresses.find({"grades.score":{$lt:10}},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera
 Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ca"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'
S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cb"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" :
 "Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cc"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynold
s Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ce"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilk
en'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park B
ake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia"
, "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d1"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ic
es", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d2"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East
 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d3"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May K
itchen", "restaurant_id" : "40358429" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d4"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina
Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d5"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seu
da Foods", "restaurant_id" : "40360045" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d6"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On
 The Boulevard", "restaurant_id" : "40356151" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d7"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices
", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
```

21) Find the restaurant_id,borough and cuisine for res which prepared dish except 'American' and 'chinees' or its name begins with 'wil'

```
> db.addresses.find({$or:[{name:/^Wil/},{"$and":[{"cuisine":{$ne:"American"}},{"cuisine":{$ne:"Chinese"}}]}]},{"re
staurant_id":1,"name":1,"borough":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera
 Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ca"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'
S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cb"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" :
 "Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cc"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynold
s Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cd"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov K
osher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ce"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilk
en'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park B
ake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d0"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia"
, "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d1"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ic
es", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d2"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East
 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d4"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina
Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d5"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seu
da Foods", "restaurant_id" : "40360045" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d6"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On
 The Boulevard", "restaurant_id" : "40356151" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d7"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices
", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
```

22) Find the res_id, name, and grades for res which achieved grade 'A' and scored 11 on date:"2014-08-11T00:00:00Z"

```
> db.addresses.find({"grades.grade":"A","grades.score":11,"grades.date":ISODate("2014-08-11T00:00:00Z")},{"restaur
ant_id":1,"name":1,"grades":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a847"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 13 }, { "date" : ISODate("2013-07-22T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate
("2013-03-14T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-07-02T00:00:00Z"), "grade" : "A"
, "score" : 11 }, { "date" : ISODate("2012-02-02T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2
011-08-24T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Neary'S Pub", "restaurant_id" : "40365871" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a922"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 11 }, { "date" : ISODate("2013-12-10T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate
("2013-06-10T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-06-08T00:00:00Z"), "grade" : "A"
, "score" : 13 }, { "date" : ISODate("2012-01-25T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("20
11-09-13T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Don Filippo Restaurant", "restaurant_id" : "40372
417" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ac07"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 6 }, { "date" : ISODate("2013-08-29T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate
("2013-04-25T00:00:00Z"), "grade" : "C", "score" : 2 }, { "date" : ISODate("2012-10-23T00:00:00Z"), "grade" : "A",
 "score" : 13 }, { "date" : ISODate("2012-04-16T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("20
11-11-15T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Mustang Sally'S Restaurant", "restaurant_id" : "4
0397374" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5adf4"), "grades" : [ { "date" : ISODate("2015-01-12T00:00:00Z"), "grade" :
 "A", "score" : 10 }, { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate
("2014-01-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-02-07T00:00:00Z"), "grade" : "A"
, "score" : 10 }, { "date" : ISODate("2012-04-30T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Club Maca
nudo (Cigar Bar)", "restaurant_id" : "40526406" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5aeea"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 8 }, { "date" : ISODate("2014-01-09T00:00:00Z"), "grade" : "B", "score" : 27 }, { "date" : ISODate
("2013-06-11T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2012-10-09T00:00:00Z"), "grade" : "B",
 "score" : 19 }, { "date" : ISODate("2012-05-10T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("20
11-11-23T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Marino'S Pizza & Restaurant", "restaurant_id" : "4
0560917" }
```

23) Find the res_id, name, and grades for res which achieved 2nd element of grade 'A' and scored 9 on date:"2014-08-11T00:00:00Z"

```
> db.addresses.find({"grades.grade":"A","grades.score":9,"grades.date":ISODate("2014-08-11T00:00:00Z")},{"restaura
nt_id":1,"name":1,"grades":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a81a"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 10 }, { "date" : ISODate("2014-03-14T00:00:00Z"), "grade" : "A", "score" : 3 }, { "date" : ISODate
("2013-01-16T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-07-12T00:00:00Z"), "grade" : "A"
, "score" : 9 } ], "name" : "Serendipity 3", "restaurant_id" : "40364863" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a847"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 13 }, { "date" : ISODate("2013-07-22T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate
("2013-03-14T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-07-02T00:00:00Z"), "grade" : "A"
, "score" : 11 }, { "date" : ISODate("2012-02-02T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2
011-08-24T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Neary'S Pub", "restaurant_id" : "40365871" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a922"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 11 }, { "date" : ISODate("2013-12-10T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate
("2013-06-10T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-06-08T00:00:00Z"), "grade" : "A"
, "score" : 13 }, { "date" : ISODate("2012-01-25T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("20
11-09-13T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Don Filippo Restaurant", "restaurant_id" : "40372
417" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a9cc"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 12 }, { "date" : ISODate("2014-02-18T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODat
e("2013-06-25T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-05-23T00:00:00Z"), "grade" : "A"
, "score" : 12 }, { "date" : ISODate("2011-12-27T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2
011-08-30T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Pietros", "restaurant_id" : "40381595" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5aa84"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" :
 "A", "score" : 3 }, { "date" : ISODate("2013-08-16T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate(
"2012-08-20T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-04-04T00:00:00Z"), "grade" : "A",
 "score" : 2 }, { "date" : ISODate("2011-11-15T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "The Cornell
```

24) Find the res_id, name, address and geo location where 2nd element of coord array has value more than 42 and upto 52

```
> db.addresses.find({"address.coord.1":{$gt:42,$lte:52}},{"restaurant_id":1,"name":1,"address":1}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5aa6a"),
        "address" : {
                "building" : "47",
                "coord" : [
                        -78.877224,
                        42.89546199999999
                ],
                "street" : "Broadway @ Trinity Pl",
                "zipcode" : "10006"
        },
        "name" : "T.G.I. Friday'S",
        "restaurant_id" : "40387990"
}
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5aa95"),
        "address" : {
                "building" : "1",
                "coord" : [
                        -0.7119979,
                        51.6514664
                ],
                "street" : "Pennplaza E, Penn Sta",
                "zipcode" : "10001"
        },
        "name" : "T.G.I. Fridays",
        "restaurant_id" : "40388936"
}
```

25) To arrange the name of restaurants in ascending order along with all columns

```
> db.addresses.find().sort({"name":1}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5b458"),
        "address" : {
                "building" : "129",
                "coord" : [
                        -73.962943,
                        40.685007
                ],
                "street" : "Gates Avenue",
                "zipcode" : "11238"
        },
        "borough" : "Brooklyn",
        "cuisine" : "Italian",
        "grades" : [
                {
                        "date" : ISODate("2014-03-06T00:00:00Z"),
                        "grade" : "A",
                        "score" : 5
                },
                {
                        "date" : ISODate("2013-08-29T00:00:00Z"),
                        "grade" : "A",
                        "score" : 2
                },
                {
                        "date" : ISODate("2013-03-08T00:00:00Z"),
                        "grade" : "A",
                        "score" : 7
                },
```

26) To arrange the name of restaurants in descending order along with all columns

```
> db.addresses.find().sort({"name":-1}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5a884"),
        "address" : {
                "building" : "6946",
                "coord" : [
                        -73.8811834,
                        40.7017759
                ],
                "street" : "Myrtle Avenue",
                "zipcode" : "11385"
        },
        "borough" : "Queens",
        "cuisine" : "German",
        "grades" : [
                {
                        "date" : ISODate("2014-09-24T00:00:00Z"),
                        "grade" : "A",
                        "score" : 11
                },
                {
                        "date" : ISODate("2014-04-17T00:00:00Z"),
                        "grade" : "A",
                        "score" : 7
                },
                {
                        "date" : ISODate("2013-03-12T00:00:00Z"),
                        "grade" : "A",
                        "score" : 13
                },
```

27) To arrange the name of cuisine in ascending order and for that borough should be desc

```
db.addresses.find().sort({"cuisine":1,"borough":-1}).pretty()

        "_id" : ObjectId("6108c408c7dbac3cf2a5aeb5"),
        "address" : {
                "building" : "1345",
                "coord" : [
                        -73.959249,
                        40.768076
                ],
                "street" : "2 Avenue",
                "zipcode" : "10021"
        },
        "borough" : "Manhattan",
        "cuisine" : "Afghan",
        "grades" : [
                {
                        "date" : ISODate("2014-10-07T00:00:00Z"
                        "grade" : "A",
                        "score" : 9
                },
                {
                        "date" : ISODate("2013-10-23T00:00:00Z"
                        "grade" : "A",
                        "score" : 8
                },
                {
                        "date" : ISODate("2012-10-26T00:00:00Z"
                        "grade" : "A",
                        "score" : 13
                },
```

28) To know whether all the addresses contains the street or not.

```
> db.addresses.find({"address.street":{$exists:true}}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"),
        "address" : {
                "building" : "2780",
                "coord" : [
                        -73.98241999999999,
                        40.579505
                ],
                "street" : "Stillwell Avenue",
                "zipcode" : "11224"
        },
        "borough" : "Brooklyn",
        "cuisine" : "American ",
        "grades" : [
                {
                        "date" : ISODate("2014-06-10T00:00:00Z"),
                        "grade" : "A",
                        "score" : 5
                },
                {
                        "date" : ISODate("2013-06-05T00:00:00Z"),
                        "grade" : "A",
                        "score" : 7
                },
                {
                        "date" : ISODate("2012-04-13T00:00:00Z"),
                        "grade" : "A",
                        "score" : 12
                },
                {
                        "date" : ISODate("2011-10-12T00:00:00Z"),
                        "grade" : "A",
                        "score" : 12
                }
        ],
```

29) Query which will select all documents in the res collection where the coord field value is double

```
> db.addresses.find({"address.coord":{$type: 1}})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"), "address" : { "building" : "2780", "coord" : [ -73.98241999999999,
40.579505 ], "street" : "Stillwell Avenue", "zipcode" : "11224" }, "borough" : "Brooklyn", "cuisine" : "American
", "grades" : [ { "date" : ISODate("2014-06-10T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013
-06-05T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-04-13T00:00:00Z"), "grade" : "A", "scor
e" : 12 }, { "date" : ISODate("2011-10-12T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Riviera Caterer"
, "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ca"), "address" : { "building" : "469", "coord" : [ -73.961704, 40.66294
2 ], "street" : "Flatbush Avenue", "zipcode" : "11225" }, "borough" : "Brooklyn", "cuisine" : "Hamburgers", "grade
s" : [ { "date" : ISODate("2014-12-30T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2014-07-01T00
:00:00Z"), "grade" : "B", "score" : 23 }, { "date" : ISODate("2013-04-30T00:00:00Z"), "grade" : "A", "score" : 12
}, { "date" : ISODate("2012-05-08T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Wendy'S", "restaurant_id
" : "30112340" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cb"), "address" : { "building" : "2206", "coord" : [ -74.1377286, 40.611
9572 ], "street" : "Victory Boulevard", "zipcode" : "10314" }, "borough" : "Staten Island", "cuisine" : "Jewish/Ko
sher", "grades" : [ { "date" : ISODate("2014-10-06T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("
2014-05-20T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-04T00:00:00Z"), "grade" : "A",
"score" : 12 }, { "date" : ISODate("2012-01-24T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Kosher Islan
d", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cc"), "address" : { "building" : "351", "coord" : [ -73.98513559999999,
40.7676919 ], "street" : "West    57 Street", "zipcode" : "10019" }, "borough" : "Manhattan", "cuisine" : "Irish",
"grades" : [ { "date" : ISODate("2014-09-06T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-07
-22T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-07-31T00:00:00Z"), "grade" : "A", "score"
: 12 }, { "date" : ISODate("2011-12-29T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Dj Reynolds Pub An
d Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cd"), "address" : { "building" : "97-22", "coord" : [ -73.8601152, 40.73
11739 ], "street" : "63 Road", "zipcode" : "11374" }, "borough" : "Queens", "cuisine" : "Jewish/Kosher", "grades"
: [ { "date" : ISODate("2014-11-24T00:00:00Z"), "grade" : "Z", "score" : 20 }, { "date" : ISODate("2013-01-17T00:0
0:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-08-02T00:00:00Z"), "grade" : "A", "score" : 13 },
{ "date" : ISODate("2011-12-15T00:00:00Z"), "grade" : "B", "score" : 25 } ], "name" : "Tov Kosher Kitchen", "rest
aurant_id" : "40356068" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7ce"), "address" : { "building" : "7114", "coord" : [ -73.9068506, 40.619
9034 ], "street" : "Avenue U", "zipcode" : "11234" }, "borough" : "Brooklyn", "cuisine" : "Delicatessen", "grades"
: [ { "date" : ISODate("2014-05-29T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-01-14T00:
00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-08-03T00:00:00Z"), "grade" : "A", "score" : 8 },
{ "date" : ISODate("2012-07-18T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-03-09T00:00:0
0Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-10-14T00:00:00Z"), "grade" : "A", "score" : 9 } ], "
name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
```

30) Query which will select the rest_id, name and grades for those res which returns 0 as a reminder after dividing the score by 7

```
> db.addresses.find({"grades.score":{$mod:[7,0]}},{"restaurant_id":1,"name":1,"grades":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7c9"), "grades" : [ { "date" : ISODate("2014-06-10T00:00:00Z"), "grade" :
 "A", "score" : 5 }, { "date" : ISODate("2013-06-05T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate(
"2012-04-13T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-10-12T00:00:00Z"), "grade" : "A",
 "score" : 12 } ], "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7cf"), "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" :
 "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate(
"2013-01-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "A",
 "score" : 9 }, { "date" : ISODate("2011-03-10T00:00:00Z"), "grade" : "B", "score" : 14 } ], "name" : "Morris Park
 Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d2"), "grades" : [ { "date" : ISODate("2014-05-07T00:00:00Z"), "grade" :
 "A", "score" : 3 }, { "date" : ISODate("2013-05-03T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate(
"2012-04-30T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2011-12-27T00:00:00Z"), "grade" : "A",
 "score" : 0 } ], "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d3"), "grades" : [ { "date" : ISODate("2014-09-16T00:00:00Z"), "grade" :
 "B", "score" : 21 }, { "date" : ISODate("2013-08-28T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate
("2013-04-02T00:00:00Z"), "grade" : "C", "score" : 56 }, { "date" : ISODate("2012-08-15T00:00:00Z"), "grade" : "B"
, "score" : 27 }, { "date" : ISODate("2012-03-28T00:00:00Z"), "grade" : "B", "score" : 27 } ], "name" : "May May K
itchen", "restaurant_id" : "40358429" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d5"), "grades" : [ { "date" : ISODate("2014-11-10T00:00:00Z"), "grade" :
 "A", "score" : 11 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODat
e("2012-10-04T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-05-21T00:00:00Z"), "grade" : "A"
, "score" : 9 }, { "date" : ISODate("2011-12-30T00:00:00Z"), "grade" : "B", "score" : 19 } ], "name" : "Seuda Food
s", "restaurant_id" : "40360045" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7d6"), "grades" : [ { "date" : ISODate("2014-11-15T00:00:00Z"), "grade" :
 "Z", "score" : 38 }, { "date" : ISODate("2014-05-02T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODat
e("2013-03-02T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-02-10T00:00:00Z"), "grade" : "A"
, "score" : 13 } ], "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7db"), "grades" : [ { "date" : ISODate("2014-08-16T00:00:00Z"), "grade" :
 "A", "score" : 12 }, { "date" : ISODate("2013-08-27T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate
("2012-09-20T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2011-09-29T00:00:00Z"), "grade" : "A",
 "score" : 10 } ], "name" : "Sal'S Deli", "restaurant_id" : "40361618" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7dd"), "grades" : [ { "date" : ISODate("2014-03-19T00:00:00Z"), "grade" :
 "A", "score" : 3 }, { "date" : ISODate("2013-03-13T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate
("2012-03-27T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2011-04-05T00:00:00Z"), "grade" : "A",
 "score" : 7 } ], "name" : "Steve Chu'S Deli & Grocery", "restaurant_id" : "40361998" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a7de"), "grades" : [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" :
 "A", "score" : 10 }, { "date" : ISODate("2014-03-04T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODat
```

31) Find the res name,borough,longitude and latitude and cuisine for res which contain 'mon' as 3 letters somewhere in name

```
> db.addresses.find({name:{$regex:"mon.*"}},{"name":1,"borough":1,"address.coord":1,"cuisine":1})
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a861"), "address" : { "coord" : [ -73.98306099999999, 40.7441419 ] }, "bor
ough" : "Manhattan", "cuisine" : "American ", "name" : "Desmond'S Tavern" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a865"), "address" : { "coord" : [ -73.8221418, 40.7272376 ] }, "borough" :
 "Queens", "cuisine" : "Jewish/Kosher", "name" : "Shimons Kosher Pizza" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a872"), "address" : { "coord" : [ -74.10465599999999, 40.58834 ] }, "borou
gh" : "Staten Island", "cuisine" : "American ", "name" : "Richmond County Country Club" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a89b"), "address" : { "coord" : [ -73.9812843, 40.5947365 ] }, "borough" :
 "Brooklyn", "cuisine" : "Pizza/Italian", "name" : "Lb Spumoni Gardens" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a8ed"), "address" : { "coord" : [ -73.951199, 40.7166026 ] }, "borough" :
"Brooklyn", "cuisine" : "Italian", "name" : "Bamonte'S Restaurant" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a926"), "address" : { "coord" : [ -73.924072, 40.76108900000001 ] }, "boro
ugh" : "Queens", "cuisine" : "Greek", "name" : "Omonia Cafe" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5a9a9"), "address" : { "coord" : [ -73.9901605, 40.7526176 ] }, "borough" :
 "Manhattan", "cuisine" : "American ", "name" : "Delmonico'S Kitchen" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ab4b"), "address" : { "coord" : [ -73.9707505, 40.7635651 ] }, "borough" :
 "Manhattan", "cuisine" : "Delicatessen", "name" : "Delmonico Gourmet" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5abb9"), "address" : { "coord" : [ -73.9760637, 40.7508686 ] }, "borough" :
 "Manhattan", "cuisine" : "American ", "name" : "Delmonico Gourmet" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ad0c"), "address" : { "coord" : [ -73.97198209999999, 40.764464 ] }, "boro
ugh" : "Manhattan", "cuisine" : "American ", "name" : "Harmonie Club" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5adcf"), "address" : { "coord" : [ -73.79571990000001, 40.7095637 ] }, "bor
ough" : "Queens", "cuisine" : "Bakery", "name" : "Ramona'S Bakery" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ae2b"), "address" : { "coord" : [ -73.98463480000001, 40.7630755 ] }, "bor
ough" : "Manhattan", "cuisine" : "American ", "name" : "Neil Simon Theatre" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5ae8d"), "address" : { "coord" : [ -74.028486, 40.630438 ] }, "borough" : "
Brooklyn", "cuisine" : "Mediterranean", "name" : "Omonia Cafe" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b042"), "address" : { "coord" : [ -73.9849976, 40.7276766 ] }, "borough" :
 "Manhattan", "cuisine" : "American ", "name" : "Simone Bar Cafe" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b273"), "address" : { "coord" : [ -74.01032339999999, 40.7050156 ] }, "bor
ough" : "Manhattan", "cuisine" : "Italian", "name" : "Delmonicos" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b3e7"), "address" : { "coord" : [ -73.8706606, 40.7342757 ] }, "borough" :
 "Queens", "cuisine" : "American ", "name" : "Cinnabon World Famous Cinnamon Rolls" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b40b"), "address" : { "coord" : [ -73.9640299, 40.807001 ] }, "borough" :
"Manhattan", "cuisine" : "American ", "name" : "Ferris Booth Commons - Alfred Lerner Hall" }
{ "_id" : ObjectId("6108c408c7dbac3cf2a5b464"), "address" : { "coord" : [ -74.10465599999999, 40.58834 ] }, "borou
gh" : "Staten Island", "cuisine" : "American ", "name" : "Richmond County Country Club - Pool Snack Bar" }
```

32) Find the res name,borough,longitude and latitude and cuisine for res which contain 'mad' as first 3 letters in name

```
> db.addresses.find({name:/^Mad/},{"name":1,"borough":1,"address.coord":1,"cuisine":1}).pretty()
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5ad05"),
        "address" : {
                "coord" : [
                        -73.9860597,
                        40.7431194
                ]
        },
        "borough" : "Manhattan",
        "cuisine" : "American ",
        "name" : "Madison Square"
}
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5add0"),
        "address" : {
                "coord" : [
                        -73.98302199999999,
                        40.742313
                ]
        },
        "borough" : "Manhattan",
        "cuisine" : "Indian",
        "name" : "Madras Mahal"
}
{
        "_id" : ObjectId("6108c408c7dbac3cf2a5b0be"),
        "address" : {
                "coord" : [
                        -74.000002,
                        40.72735
                ]
        },
```