1.

Answer:

> db.addresses.find()

{ "\_id" : ObjectId("60aa1d13e32e323758f2711e"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "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("60aa1d13e32e323758f2711f"), "address" : { "building" : "469", "coord" : [ -73.961704, 40.662942 ], "street" : "Flatbush Avenue", "zipcode" : "11225" }, "borough" : "Brooklyn", "cuisine" : "Hamburgers", "grades" : [ { "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("60aa1d13e32e323758f27120"), "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 And Restaurant", "restaurant\_id" : "30191841" }

2.

Answer:

> db.addresses.aggregate([

... {$project:{restaurant\_id:1,name:1,borough:1,cuisine:1}}

... ]).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2711e"),

"borough" : "Bronx",

"cuisine" : "Bakery",

"name" : "Morris Park Bake Shop",

"restaurant\_id" : "30075445"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2711f"),

"borough" : "Brooklyn",

"cuisine" : "Hamburgers",

"name" : "Wendy'S",

"restaurant\_id" : "30112340"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27120"),

"borough" : "Manhattan",

"cuisine" : "Irish",

"name" : "Dj Reynolds Pub And Restaurant",

"restaurant\_id" : "30191841"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27121"),

"borough" : "Brooklyn",

"cuisine" : "American ",

"name" : "Riviera Caterer",

"restaurant\_id" : "40356018"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27122"),

"borough" : "Queens",

"cuisine" : "Jewish/Kosher",

"name" : "Tov Kosher Kitchen",

"restaurant\_id" : "40356068"

}

3.

Answer:

> db.addresses.aggregate([

... {$project:{restaurant\_id:1,name:1,

... borough:1,cuisine:1,\_id:0}}

... ])

{ "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" }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant\_id" : "40356018" }

{ "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant\_id" : "40356068" }

{ "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant\_id" : "40356151" }

{ "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant\_id" : "40356442" }

{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant\_id" : "40356483" }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant\_id" : "40356649" }

{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant\_id" : "40356731" }

{ "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant\_id" : "40357217" }

4.

Answer:

> db.addresses.aggregate([ {$project:{restaurant\_id:1,name:1, borough:1,"address.zipcode":1,\_id:0}} ]).pretty()

{

"address" : {

"zipcode" : "10462"

},

"borough" : "Bronx",

"name" : "Morris Park Bake Shop",

"restaurant\_id" : "30075445"

}

{

"address" : {

"zipcode" : "11225"

},

"borough" : "Brooklyn",

"name" : "Wendy'S",

"restaurant\_id" : "30112340"

}

5.

Answer:

> db.addresses.find({"borough": "Bronx"}).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2711e"),

"address" : {

"building" : "1007",

"coord" : [

-73.856077,

40.848447

],

"street" : "Morris Park Ave",

"zipcode" : "10462"

},

"borough" : "Bronx",

"cuisine" : "Bakery",

"grades" : [

{

"date" : ISODate("2014-03-03T00:00:00Z"),

"grade" : "A",

"score" : 2

},

{

"date" : ISODate("2013-09-11T00:00:00Z"),

"grade" : "A",

"score" : 6

},

{

"date" : ISODate("2013-01-24T00:00:00Z"),

"grade" : "A",

"score" : 10

},…

6.

Answer:

> db.addresses.find({"borough": "Bronx"}).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2711e"),

"address" : {

"building" : "1007",

"coord" : [

-73.856077,

40.848447

],

"street" : "Morris Park Ave",

"zipcode" : "10462"

},

"borough" : "Bronx",

"cuisine" : "Bakery",

"grades" : [

{

"date" : ISODate("2014-03-03T00:00:00Z"),

"grade" : "A",

"score" : 2

},

{

"date" : ISODate("2013-09-11T00:00:00Z"),

"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"

}

7.

Answer:

> db.addresses.find({"borough": "Bronx"}).skip(5).limit(5).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2715b"),

"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("60aa1d13e32e323758f27173"),

"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("2012-02-08T00:00:00Z"),

"grade" : "B",

"score" : 19

}

],

"name" : "The New Starling Athletic Club Of The Bronx",

"restaurant\_id" : "40364956"

}

8.

Answer:

> db.addresses.find({grades : { $elemMatch:{"score":{$gt : 90}}}}).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2727c"),

"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

},

{

"date" : ISODate("2013-04-08T00:00:00Z"),

"grade" : "B",

"score" : 25

},

{

"date" : ISODate("2012-10-15T00:00:00Z"),

"grade" : "A",

"score" : 11

},

{

"date" : ISODate("2011-10-19T00:00:00Z"),

"grade" : "A",

"score" : 13

}

],

"name" : "Murals On 54/Randolphs'S",

"restaurant\_id" : "40372466"

}

9.

Answer:

> db.addresses.find({grades : { $elemMatch:{"score":{$gt : 80 , $lt :100}}}}).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2731d"),

"address" : {

"building" : "345",

"coord" : [

-73.9864626,

40.7266739

],

"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

},

{

"date" : ISODate("2011-11-03T00:00:00Z"),

"grade" : "C",

"score" : 41

}

],

"name" : "Gandhi",

"restaurant\_id" : "40381295"

}

10.

Answer:

> db.addresses.find({"address.coord" : {$lt : -95.754168}}).pretty()

{

"\_id" : ObjectId("60aa1d15e32e323758f27766"),

"address" : {

"building" : "3707",

"coord" : [

-101.8945214,

33.5197474

],

"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

}

],

"name" : "Burger King",

"restaurant\_id" : "40534067"

}

11.

Answer:

> db.addresses.find(

... {$and:

... [

... {"cuisine" : {$ne :"American "}},

... {"grades.score" : {$gt : 70}},

... {"address.coord" : {$lt : -65.754168}}

... ]

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2731d"),

"address" : {

"building" : "345",

"coord" : [

-73.9864626,

40.7266739

],

"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

},

{

"date" : ISODate("2011-11-03T00:00:00Z"),

"grade" : "C",

"score" : 41

}

],

"name" : "Gandhi",

"restaurant\_id" : "40381295"

}

12.

Answer:

db.addresses.find({"address.coord" : {$lt : -95.754168}}).pretty()

{

"\_id" : ObjectId("60aa1d15e32e323758f27766"),

"address" : {

"building" : "3707",

"coord" : [

-101.8945214,

33.5197474

],

"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

}

],

"name" : "Burger King",

"restaurant\_id" : "40534067"

}

13.

Answer:

> db.addresses.find( {

... "cuisine" : {$ne : "American "},

... "grades.grade" :"A",

... "borough": {$ne : "Brooklyn"}

... }

... ).sort({"cuisine":-1}).pretty()

{

"\_id" : ObjectId("60aa1d15e32e323758f2782a"),

"address" : {

"building" : "89",

"coord" : [

-73.9995899,

40.7168015

],

"street" : "Baxter Street",

"zipcode" : "10013"

},

"borough" : "Manhattan",

"cuisine" : "Vietnamese/Cambodian/Malaysia",

"grades" : [

{

"date" : ISODate("2014-08-21T00:00:00Z"),

"grade" : "A",

"score" : 13

},

{

"date" : ISODate("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"

}

14.

Answer:

> db.addresses.find(

... {name: /^Wil/},

... {

... "restaurant\_id" : 1,

... "name":1,"borough":1,

... "cuisine" :1

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f27125"),

"borough" : "Brooklyn",

"cuisine" : "Delicatessen",

"name" : "Wilken'S Fine Food",

"restaurant\_id" : "40356483"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27128"),

"borough" : "Bronx",

"cuisine" : "American ",

"name" : "Wild Asia",

"restaurant\_id" : "40357217"

}

15.

Answer:

> db.addresses.find(

... {name: /ces$/},

... {

... "restaurant\_id" : 1,

... "name":1,"borough":1,

... "cuisine" :1

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d15e32e323758f275b1"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Pieces",

"restaurant\_id" : "40399910"

}

{

"\_id" : ObjectId("60aa1d15e32e323758f27670"),

"borough" : "Queens",

"cuisine" : "American ",

"name" : "S.M.R Restaurant Services",

"restaurant\_id" : "40403857"

}

16.

Answer:

> db.addresses.find(

... {"name": /.\*Reg.\*/},

... {

... "restaurant\_id" : 1,

... "name":1,"borough":1,

... "cuisine" :1

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f27126"),

"borough" : "Brooklyn",

"cuisine" : "American ",

"name" : "Regina Caterers",

"restaurant\_id" : "40356649"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27223"),

"borough" : "Manhattan",

"cuisine" : "Café/Coffee/Tea",

"name" : "Caffe Reggio",

"restaurant\_id" : "40369418"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27332"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Regency Hotel",

"restaurant\_id" : "40382679"

}

17.

Answer:

> db.addresses.find(

... {

... "borough": "Bronx" ,

... $or : [

... { "cuisine" : "American " },

... { "cuisine" : "Chinese" }

... ]

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f27128"),

"address" : {

"building" : "2300",

"coord" : [

-73.8786113,

40.8502883

],

"street" : "Southern Boulevard",

"zipcode" : "10460"

},

"borough" : "Bronx",

"cuisine" : "American ",

"grades" : [

{

"date" : ISODate("2014-05-28T00:00:00Z"),

"grade" : "A",

"score" : 11

},

{

"date" : ISODate("2013-06-19T00:00:00Z"),

"grade" : "A",

"score" : 4

},

{

"date" : ISODate("2012-06-15T00:00:00Z"),

"grade" : "A",

"score" : 3

}

],

"name" : "Wild Asia",

"restaurant\_id" : "40357217"

}

18.

Answer:

> db.addresses.find(

... {"borough" :{$in :["Staten Island","Queens","Bronx","Brooklyn"]}},

... {

... "restaurant\_id" : 1,

... "name":1,"borough":1,

... "cuisine" :1

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2711e"),

"borough" : "Bronx",

"cuisine" : "Bakery",

"name" : "Morris Park Bake Shop",

"restaurant\_id" : "30075445"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2711f"),

"borough" : "Brooklyn",

"cuisine" : "Hamburgers",

"name" : "Wendy'S",

"restaurant\_id" : "30112340"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27121"),

"borough" : "Brooklyn",

"cuisine" : "American ",

"name" : "Riviera Caterer",

"restaurant\_id" : "40356018"

}

19.

Answer:

> db.addresses.find(

... {"borough" :{$nin :["Staten Island","Queens","Bronx","Brooklyn"]}},

... {

... "restaurant\_id" : 1,

... "name":1,"borough":1,

... "cuisine" :1

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f27120"),

"borough" : "Manhattan",

"cuisine" : "Irish",

"name" : "Dj Reynolds Pub And Restaurant",

"restaurant\_id" : "30191841"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2712b"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "1 East 66Th Street Kitchen",

"restaurant\_id" : "40359480"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27130"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Glorious Food",

"restaurant\_id" : "40361521"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27133"),

"borough" : "Manhattan",

"cuisine" : "Delicatessen",

"name" : "Bully'S Deli",

"restaurant\_id" : "40361708"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27135"),

"borough" : "Manhattan",

"cuisine" : "Chicken",

"name" : "Harriet'S Kitchen",

"restaurant\_id" : "40362098"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27136"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "P & S Deli Grocery",

"restaurant\_id" : "40362264"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27137"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Angelika Film Center",

"restaurant\_id" : "40362274"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2713a"),

"borough" : "Manhattan",

"cuisine" : "Turkish",

"name" : "The Country Cafe",

"restaurant\_id" : "40362715"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2713c"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Downtown Deli",

"restaurant\_id" : "40363021"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27140"),

"borough" : "Manhattan",

"cuisine" : "Bakery",

"name" : "Olive'S",

"restaurant\_id" : "40363151"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27142"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Cafe Metro",

"restaurant\_id" : "40363298"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27144"),

"borough" : "Manhattan",

"cuisine" : "Sandwiches/Salads/Mixed Buffet",

"name" : "Lexler Deli",

"restaurant\_id" : "40363426"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27148"),

"borough" : "Manhattan",

"cuisine" : "Continental",

"name" : "Lorenzo & Maria'S",

"restaurant\_id" : "40363630"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27149"),

"borough" : "Manhattan",

"cuisine" : "Pizza",

"name" : "Domino'S Pizza",

"restaurant\_id" : "40363644"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2714a"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Berkely",

"restaurant\_id" : "40363685"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2714e"),

"borough" : "Manhattan",

"cuisine" : "Pizza",

"name" : "Domino'S Pizza",

"restaurant\_id" : "40363945"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2714f"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Spoon Bread Catering",

"restaurant\_id" : "40364179"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27155"),

"borough" : "Manhattan",

"cuisine" : "Chicken",

"name" : "Texas Rotisserie",

"restaurant\_id" : "40364304"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27158"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Metropolitan Club",

"restaurant\_id" : "40364347"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f27159"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "Palm Restaurant",

"restaurant\_id" : "40364355"

20.

Answer:

> db.addresses.find(

... {"grades.score" :

... { $not:

... {$gt : 10}

... }

... },

... {

... "restaurant\_id" : 1,

... "name":1,"borough":1,

... "cuisine" :1

... }

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f27129"),

"borough" : "Brooklyn",

"cuisine" : "American ",

"name" : "C & C Catering Service",

"restaurant\_id" : "40357437"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2712b"),

"borough" : "Manhattan",

"cuisine" : "American ",

"name" : "1 East 66Th Street Kitchen",

"restaurant\_id" : "40359480"

}

21.

Answer:

> db.addresses.find(

... {$or: [

... {name: /^Wil/},

... {"$and": [

... {"cuisine" : {$ne :"American "}},

... {"cuisine" : {$ne :"Chinees"}}

... ]}

... ]}

... ,{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2711e"),

"borough" : "Bronx",

"cuisine" : "Bakery",

"name" : "Morris Park Bake Shop",

"restaurant\_id" : "30075445"

}

{

"\_id" : ObjectId("60aa1d13e32e323758f2711f"),

"borough" : "Brooklyn",

"cuisine" : "Hamburgers",

"name" : "Wendy'S",

"restaurant\_id" : "30112340"

}

22.

Answer:

> db.addresses.find(

... {

... "grades.date": ISODate("2014-08-11T00:00:00Z"),

... "grades.grade":"A" ,

... "grades.score" : 11

... },

... {"restaurant\_id" : 1,"name":1,"grades":1}

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f2719c"),

"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("2011-08-24T00:00:00Z"),

"grade" : "A",

"score" : 11

}

],

"name" : "Neary'S Pub",

"restaurant\_id" : "40365871"

}

23.

Answer:

> db.addresses.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}

... ).pretty()

{

"\_id" : ObjectId("60aa1d15e32e323758f27749"),

"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 Macanudo (Cigar Bar)",

"restaurant\_id" : "40526406"

}

24.

Answer:

> db.addresses.find(

... {

... "address.coord.1": {$gt : 42, $lte : 52}

... },

... {"restaurant\_id" : 1,"name":1,"address":1,"coord":1}

... ).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f273c0"),

"address" : {

"building" : "47",

"coord" : [

-78.877224,

42.89546199999999

],

"street" : "Broadway @ Trinity Pl",

"zipcode" : "10006"

},

"name" : "T.G.I. Friday'S",

"restaurant\_id" : "40387990"

}

25.

Answer:

> db.addresses.find().sort({"name":1}).pretty()

{

"\_id" : ObjectId("60aa1d18e32e323758f27dae"),

"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

},

{

"date" : ISODate("2012-06-27T00:00:00Z"),

"grade" : "A",

"score" : 7

},

{

"date" : ISODate("2011-11-17T00:00:00Z"),

"grade" : "A",

"score" : 12

}

],

"name" : "(Lewis Drug Store) Locanda Vini E Olii",

"restaurant\_id" : "40804423"

}

26.

Answer:

> db.addresses.find().sort({"name":-1}).pretty()

{

"\_id" : ObjectId("60aa1d13e32e323758f271dd"),

"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

},

{

"date" : ISODate("2012-10-02T00:00:00Z"),

"grade" : "A",

"score" : 9

},

{

"date" : ISODate("2012-05-09T00:00:00Z"),

"grade" : "A",

"score" : 13

},

{

"date" : ISODate("2011-12-28T00:00:00Z"),

"grade" : "B",

"score" : 24

}

],

"name" : "Zum Stammtisch",

"restaurant\_id" : "40367377"

}

27.

Answer:

> db.addresses.find().sort(

... {"cuisine":1,"borough" : -1,}

... ).pretty()

{

"\_id" : ObjectId("60aa1d15e32e323758f27809"),

"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

},

{

"date" : ISODate("2012-04-26T00:00:00Z"),

"grade" : "A",

"score" : 7

},

{

"date" : ISODate("2012-01-12T00:00:00Z"),

"grade" : "P",

"score" : 10

}

],

"name" : "Afghan Kebab House",

"restaurant\_id" : "40552806"

}

28.

Answer:

> db.addresses.find(

... {"address.street" :

... { $exists : true }

... }

... )

{ "\_id" : ObjectId("60aa1d13e32e323758f2711e"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "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("60aa1d13e32e323758f2711f"), "address" : { "building" : "469", "coord" : [ -73.961704, 40.662942 ], "street" : "Flatbush Avenue", "zipcode" : "11225" }, "borough" : "Brooklyn", "cuisine" : "Hamburgers", "grades" : [ { "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("60aa1d13e32e323758f27120"), "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 And Restaurant", "restaurant\_id" : "30191841" }

{ "\_id" : ObjectId("60aa1d13e32e323758f27121"), "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 } ], "name" : "Riviera Caterer", "restaurant\_id" : "40356018" }

29.

Answer

> db.addresses.find(

... {"address.coord" :

... {$type : 1}

... }

... );

{ "\_id" : ObjectId("60aa1d13e32e323758f2711e"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "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("60aa1d13e32e323758f2711f"), "address" : { "building" : "469", "coord" : [ -73.961704, 40.662942 ], "street" : "Flatbush Avenue", "zipcode" : "11225" }, "borough" : "Brooklyn", "cuisine" : "Hamburgers", "grades" : [ { "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" }

30.

Answer:

> db.addresses.find(

... {"grades.score" :

... {$mod : [7,0]}

... },

... {"restaurant\_id" : 1,"name":1,"grades":1}

... );

{ "\_id" : ObjectId("60aa1d13e32e323758f2711e"), "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("60aa1d13e32e323758f27121"), "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" }

31.

Answer:

> db.addresses.find(

... { name :

... { $regex : "mon.\*", $options: "i" }

... },

... {

... "name":1,

... "borough":1,

... "address.coord":1,

... "cuisine" :1

... }

... );

{ "\_id" : ObjectId("60aa1d13e32e323758f271b2"), "address" : { "coord" : [ -73.98306099999999, 40.7441419 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Desmond'S Tavern" }

{ "\_id" : ObjectId("60aa1d13e32e323758f271bb"), "address" : { "coord" : [ -73.8221418, 40.7272376 ] }, "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Shimons Kosher Pizza" }

{ "\_id" : ObjectId("60aa1d13e32e323758f271c7"), "address" : { "coord" : [ -74.10465599999999, 40.58834 ] }, "borough" : "Staten Island", "cuisine" : "American ", "name" : "Richmond County Country Club" }

{ "\_id" : ObjectId("60aa1d13e32e323758f271f2"), "address" : { "coord" : [ -73.9812843, 40.5947365 ] }, "borough" : "Brooklyn", "cuisine" : "Pizza/Italian", "name" : "Lb Spumoni Gardens" }

32.

Answer:

Y> db.addresses.find(

... { name :

... { $regex : /^Mad/i, }

... },

... {

... "name":1,

... "borough":1,

... "address.coord":1,

... "cuisine" :1

... }

... );

{ "\_id" : ObjectId("60aa1d15e32e323758f2765a"), "address" : { "coord" : [ -73.9860597, 40.7431194 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Madison Square" }

{ "\_id" : ObjectId("60aa1d15e32e323758f27728"), "address" : { "coord" : [ -73.98302199999999, 40.742313 ] }, "borough" : "Manhattan", "cuisine" : "Indian", "name" : "Madras Mahal" }

{ "\_id" : ObjectId("60aa1d17e32e323758f279d6"), "address" : { "coord" : [ -74.000002, 40.72735 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Madame X" }