

MongoDB – Complex Queries

ASSIGNMENT-3

1. Write a MongoDB query to display all the documents in the collection restaurants.

```
Select Command Prompt - mongo

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

----
> use restaurants
switched to db restaurants
> db.createCollection('addresses')
{ "ok" : 1 }
> db.addresses.find()
{ "_id" : ObjectId("61777b89e5880b1cc003133"), "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("61777b89e5880b1cc003134"), "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("61777b89e5880b1cc003135"), "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("61777b89e5880b1cc003136"), "address" : { "building" : "2700", "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" }
{ "_id" : ObjectId("61777b89e5880b1cc003137"), "address" : { "building" : "97-22", "coord" : [ -73.8601152, 40.7311739 ], "street" : "63 Road", "zipcode" : "11374" }, "borough" : "Queens", "cuisine" : "Jewish/Kosher", "grades" : [ { "date" : ISODate("2014-11-24T00:00:00Z"), "grade" : "Z", "score" : 20 }, { "date" : ISODate("2013-01-17T00:00:00Z"), "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", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("61777b89e5880b1cc003138"), "address" : { "building" : "8825", "coord" : [ -73.8803827, 40.7643124 ], "street" : "Astoria Boulevard", "zipcode" : "11369" }, "borough" : "Queens", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-11-15T00:00:00Z"), "grade" : "Z", "score" : 38 }, { "date" : ISODate("2014-05-02T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("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("61777b89e5880b1cc003139"), "address" : { "building" : "2206", "coord" : [ -74.1377286, 40.6119572 ], "street" : "Victory Boulevard", "zipcode" : "11224" }, "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "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 Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("61777b89e5880b1cc00313a"), "address" : { "building" : "7114", "coord" : [ -73.9068506, 40.6199034 ], "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("2012-03-09T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-10-14T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("61777b89e5880b1cc00313b"), "address" : { "building" : "6409", "coord" : [ -74.00528899999999, 40.628886 ], "street" : "11 Avenue", "zipcode" : "11219" }, "borough" : "Brooklyn", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-07-18T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-09-19")
```

2. Write a MongoDB query to display the fields restaurant_id, name, borough and cuisine for all the documents in the collection restaurant.

```
db.addresses.find({}, {restaurant_id:1, name:1, borough:1, cuisine:1})
{ "_id" : ObjectId("61777b89e5880b1cc003133"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("61777b89e5880b1cc003134"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("61777b89e5880b1cc003135"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("61777b89e5880b1cc003136"), "borough" : "Brooklyn", "cuisine" : "American", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("61777b89e5880b1cc003137"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("61777b89e5880b1cc003138"), "borough" : "Queens", "cuisine" : "American", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "_id" : ObjectId("61777b89e5880b1cc003139"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("61777b89e5880b1cc00313a"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("61777b89e5880b1cc00313b"), "borough" : "Brooklyn", "cuisine" : "American", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("61777b89e5880b1cc00313c"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "_id" : ObjectId("61777b89e5880b1cc00313d"), "borough" : "Bronx", "cuisine" : "American", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "_id" : ObjectId("61777b89e5880b1cc00313e"), "borough" : "Brooklyn", "cuisine" : "American", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
{ "_id" : ObjectId("61777b89e5880b1cc00313f"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant_id" : "40358429" }
{ "_id" : ObjectId("61777b89e5880b1cc003140"), "borough" : "Manhattan", "cuisine" : "American", "name" : "1 East 66th Street Kitchen", "restaurant_id" : "40359480" }
{ "_id" : ObjectId("61777b89e5880b1cc003141"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Souda Foods", "restaurant_id" : "40360045" }
{ "_id" : ObjectId("61777b89e5880b1cc003142"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
{ "_id" : ObjectId("61777b89e5880b1cc003143"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "_id" : ObjectId("61777b89e5880b1cc003144"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "_id" : ObjectId("61777b89e5880b1cc003145"), "borough" : "Manhattan", "cuisine" : "American", "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "_id" : ObjectId("61777b89e5880b1cc003146"), "borough" : "Brooklyn", "cuisine" : "American", "name" : "The Movable Feast", "restaurant_id" : "40361606" }
Type "it" for more
```

3. Write a MongoDB query to display the fields restaurant_id, name, borough and cuisine, but exclude the field _id for all the documents in the collection restaurant.

```

db.addresses.find({}, {restaurant_id:1, _id:0, name:1, borough:1, cuisine:1 })e" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
"borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }lorious Food", "restaurant_id" : "40361521" }
"borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" } : "The Movable Feast", "restaurant_id" : "40361606" }
"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" }
"borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
"borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant_id" : "40358429" }
"borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
"borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
"borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
"borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
"borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
"borough" : "Manhattan", "cuisine" : "American ", "name" : "Glorious Food", "restaurant_id" : "40361521" }
"borough" : "Brooklyn", "cuisine" : "American ", "name" : "The Movable Feast", "restaurant_id" : "40361606" }
type "it" for more
>

```

4. Write a MongoDB query to display the fields restaurant_id, name, borough and zip code, but exclude the field _id for all the documents in the collection restaurant.

```

db.addresses.find({}, {restaurant_id:1, _id:0, name:1, borough:1, "address.zipcode":1 })
{ "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "address" : { "zipcode" : "11225" }, "borough" : "Brooklyn", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "address" : { "zipcode" : "10019" }, "borough" : "Manhattan", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "address" : { "zipcode" : "11224" }, "borough" : "Brooklyn", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "address" : { "zipcode" : "11374" }, "borough" : "Queens", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "address" : { "zipcode" : "11369" }, "borough" : "Queens", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "address" : { "zipcode" : "10314" }, "borough" : "Staten Island", "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "address" : { "zipcode" : "11234" }, "borough" : "Brooklyn", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "address" : { "zipcode" : "11219" }, "borough" : "Brooklyn", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "address" : { "zipcode" : "11226" }, "borough" : "Brooklyn", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "address" : { "zipcode" : "10460" }, "borough" : "Bronx", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "address" : { "zipcode" : "11214" }, "borough" : "Brooklyn", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
{ "address" : { "zipcode" : "11208" }, "borough" : "Brooklyn", "name" : "May May Kitchen", "restaurant_id" : "40358429" }
{ "address" : { "zipcode" : "10065" }, "borough" : "Manhattan", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "address" : { "zipcode" : "11223" }, "borough" : "Brooklyn", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "address" : { "zipcode" : "11218" }, "borough" : "Brooklyn", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
{ "address" : { "zipcode" : "11004" }, "borough" : "Queens", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "address" : { "zipcode" : "11209" }, "borough" : "Brooklyn", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "address" : { "zipcode" : "10021" }, "borough" : "Manhattan", "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "address" : { "zipcode" : "11215" }, "borough" : "Brooklyn", "name" : "The Movable Feast", "restaurant_id" : "40361606" }
type "it" for more

```

5. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx.

```

db.addresses.find({"borough":"Bronx"})
{ "_id" : ObjectId("61777b89e5880b1cc003133"), "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("61777b89e5880b1cc00313d"), "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" },
{ "_id" : ObjectId("61777b89e5880b1cc003152"), "address" : { "building" : "1006", "coord" : [ -73.84856870000002, 40.8903781 ], "street" : "East 233 Street", "zipcode" : "10466" }, "borough" : "Bronx", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "grades" : [ { "date" : ISODate("2014-04-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : 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("61777b89e5880b1cc003156"), "address" : { "building" : "1236", "coord" : [ -73.8893654, 40.81376179999999 ], "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("61777b89e5880b1cc003168"), "address" : { "building" : "7277", "coord" : [ -73.8941893, 40.8634684 ], "street" : "East Kingsbridge Road", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-09-26T00:00:00Z"), "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("61777b89e5880b1cc003170"), "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("61777b89e5880b1cc003188"), "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("2014-05-03T00:00:00Z"), "grade" : "A", "score" : 17 }, { "date" : ISODate("2013-03-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-09-10T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Glorious Food", "restaurant_id" : "40361521" }

```

6. Write a MongoDB query to display all the restaurant which is in the borough Bronx.

```

db.addresses.find({"borough":"Bronx"}).limit(5)
{
  "_id": ObjectId("61777b89e5880b1cc003133"), "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("61777b89e5880b1cc00313d"), "address": { "building": "7300", "coord": [ -73.8786113, 40.8502883 ], "street": "Southern Boulevard", "zipcode": "10450", "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": "40352127" },
  "_id": ObjectId("61777b89e5880b1cc003152"), "address": { "building": "1006", "coord": [ -73.8485687000002, 40.8903781 ], "street": "East 233 Street", "zipcode": "10466", "borough": "Bronx", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "grades": [ { "date": ISODate("2014-04-24T00:00:00Z"), "grade": "A", "score": 10 }, { "date": 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("61777b89e5880b1cc003156"), "address": { "building": "1236", "coord": [ -73.8893654, 40.81376179999999 ], "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("61777b89e5880b1cc003168"), "address": { "building": "277", "coord": [ -73.8941893, 40.8634684 ], "street": "East Kingsbridge Road", "zipcode": "10458", "borough": "Bronx", "cuisine": "Chinese", "grades": [ { "date": ISODate("2014-03-03T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2013-09-26T00:00:00Z"), "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. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.

```

db.addresses.find({"borough":"Bronx"}).limit(5).skip(5)
{
  "_id": ObjectId("61777b89e5880b1cc003170"), "address": { "building": "658", "coord": [ -73.81363999999999, 40.8294100000001 ], "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("61777b89e5880b1cc003188"), "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" },
  "_id": ObjectId("61777b89e5880b1cc0031a0"), "address": { "building": "72", "coord": [ -73.92586, 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 }, { "date": ISODate("2011-08-15T00:00:00Z"), "grade": "C", "score": 37 } ], "name": "Yankee Tavern", "restaurant_id": "40365499" },
  "_id": ObjectId("61777b89e5880b1cc0031b3"), "address": { "building": "331", "coord": [ -73.87786539999999, 40.8724377 ], "street": "East 204 Street", "zipcode": "10467", "borough": "Bronx", "cuisine": "Irish", "grades": [ { "date": ISODate("2014-08-26T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2014-03-26T00:00:00Z"), "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("61777b89e5880b1cc0031cc"), "address": { "building": "5820", "coord": [ -73.9002615, 40.885186 ], "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": ISODate("2012-11-20T00:00:00Z"), "grade": "A", "score": 18 }, { "date": ISODate("2011-10-17T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2011-06-22T00:00:00Z"), "grade": "C", "score": 35 } ], "name": "The Punch Bowl", "restaurant_id": "40366497" }
}

```

8. Write a MongoDB query to find the restaurants who achieved a score more than 90.

```

{ "_id": ObjectId("61777b89e5880b1cc003291"), "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": 13 }, { "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" },
  "_id": ObjectId("61777b89e5880b1cc00332"), "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": "B", "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" },
  "_id": ObjectId("61777b89e5880b1cc003495"), "address": { "building": "130", "coord": [ -73.984758, 40.7457939 ], "street": "Madison Avenue", "zipcode": "10016", "borough": "Manhattan", "cuisine": "Pizza/Italian", "grades": [ { "date": ISODate("2014-12-24T00:00:00Z"), "grade": "Z", "score": 31 }, { "date": ISODate("2014-06-17T00:00:00Z"), "grade": "A", "score": 6 }, { "date": ISODate("2012-06-19T00:00:00Z"), "grade": "A", "score": 11 } ], "name": "Bella Napoli", "restaurant_id": "40393488" },
  "_id": ObjectId("61777b89e5880b1cc003401"), "address": { "building": "130", "coord": [ -74.0163793, 40.7167671 ], "street": "Hudson River", "zipcode": "10022", "borough": "Manhattan", "cuisine": "American", "grades": [ { "date": ISODate("2014-06-27T00:00:00Z"), "grade": "C", "score": 89 }, { "date": ISODate("2013-06-06T00:00:00Z"), "grade": "A", "score": 6 }, { "date": ISODate("2012-06-19T00:00:00Z"), "grade": "A", "score": 13 } ], "name": "West 79th Street Boat Basin Cafe", "restaurant_id": "40756344" }
}

```

9. Write a MongoDB query to find the restaurants that achieved a score, more than 80 but less than 100.

```

db.addresses.find({"grades.score":{"$gt:80,$lt:100"}})
{ "_id": ObjectId("61777b89e5880b1cc003291"), "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": 13 }, { "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" },
  "_id": ObjectId("61777b89e5880b1cc00332"), "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": "B", "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" },
  "_id": ObjectId("61777b89e5880b1cc003495"), "address": { "building": "130", "coord": [ -73.984758, 40.7457939 ], "street": "Madison Avenue", "zipcode": "10016", "borough": "Manhattan", "cuisine": "Pizza/Italian", "grades": [ { "date": ISODate("2014-12-24T00:00:00Z"), "grade": "Z", "score": 31 }, { "date": ISODate("2014-06-17T00:00:00Z"), "grade": "A", "score": 6 }, { "date": ISODate("2012-06-19T00:00:00Z"), "grade": "A", "score": 11 } ], "name": "Bella Napoli", "restaurant_id": "40393488" },
  "_id": ObjectId("61777b89e5880b1cc003401"), "address": { "building": "130", "coord": [ -74.0163793, 40.7167671 ], "street": "Hudson River", "zipcode": "10022", "borough": "Manhattan", "cuisine": "American", "grades": [ { "date": ISODate("2014-06-27T00:00:00Z"), "grade": "C", "score": 89 }, { "date": ISODate("2013-06-06T00:00:00Z"), "grade": "A", "score": 6 }, { "date": ISODate("2012-06-19T00:00:00Z"), "grade": "A", "score": 13 } ], "name": "West 79th Street Boat Basin Cafe", "restaurant_id": "40756344" }
}

```

10. Write a MongoDB query to find the restaurants which locate in latitude value less than -95.754168.

11. Write a MongoDB query to find the restaurants that do not prepare any cuisine of 'American' and their grade score more than 70 and latitude less than -65.754168.

12. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a score more than 70 and located in the longitude less than -65.754168.

13. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American ' and achieved a grade point 'A' not belongs to the borough Brooklyn. The document must be displayed according to the cuisine in descending order.

```
db.addresses.find({"borough": "Bronx", "cuisine": {"$in": ["American", "Chinese"]}}, {
  "_id": "ObjectID('6177789e58800b1cc03134)", "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"}
{ "_id": "ObjectID('6177789e58800b1cc03156)", "address": { "building": "1236", "coord": [ -73.8893654, 40.81376179999999 ], "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('6177789e58800b1cc03168)", "address": { "building": "227", "coord": [ -73.9041993, 40.8634684 ], "street": "East Kingsbridge Road", "zipcode": "10458"}, "borough": "Bronx", "cuisine": "Chinese", "grades": [ { "date": ISODate("2014-03-09T00:00:00Z"), "grade": "A", "score": 10 }, { "date": ISODate("2013-09-26T00:00:00Z"), "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('6177789e58800b1cc03170)", "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('6177789e58800b1cc03188)", "address": { "building": "2222", "coord": [ -73.84971599999999, 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": "40365606"}
{ "_id": "ObjectID('6177789e58800b1cc031a0)", "address": { "building": "72", "coord": [ -73.92560, 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")
```

18. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which belong to the borough Staten Island or Queens or Bronx or Brooklyn.

```
db.addresses.find({"borough":{$in:["Staten Island","Queens","Bronx","Brooklyn"]},"restaurant_id":1,"name":1,"borough":1,"cuisine":1});
{"_id": "ObjectID('61777b89e58800b1cc03132')", "borough": "Bronx", "cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant_id": "38075445" }
{"_id": "ObjectID('61777b89e58800b1cc03134')", "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy'S", "restaurant_id": "30112340" }
{"_id": "ObjectID('61777b89e58800b1cc03136')", "borough": "Brooklyn", "cuisine": "American", "name": "Riviera Cateren", "restaurant_id": "40356018" }
{"_id": "ObjectID('61777b89e58800b1cc03137')", "borough": "Queens", "cuisine": "Jewish/Kosher", "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }
{"_id": "ObjectID('61777b89e58800b1cc03138')", "borough": "Queens", "cuisine": "American", "name": "Brunos On The Boulevard", "restaurant_id": "40356151" }
{"_id": "ObjectID('61777b89e58800b1cc03139')", "borough": "Staten Island", "cuisine": "Jewish/Kosher", "name": "Kosher Island", "restaurant_id": "40356442" }
{"_id": "ObjectID('61777b89e58800b1cc0313a')", "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Wilken'S Fine Food", "restaurant_id": "40356483" }
{"_id": "ObjectID('61777b89e58800b1cc0313b')", "borough": "Brooklyn", "cuisine": "American", "name": "Regina Caterers", "restaurant_id": "40356649" }
{"_id": "ObjectID('61777b89e58800b1cc0313c')", "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{"_id": "ObjectID('61777b89e58800b1cc0313d')", "borough": "Bronx", "cuisine": "American", "name": "Wild Asia", "restaurant_id": "40357217" }
{"_id": "ObjectID('61777b89e58800b1cc0313e')", "borough": "Brooklyn", "cuisine": "American", "name": "C & C Catering Service", "restaurant_id": "40357437" }
{"_id": "ObjectID('61777b89e58800b1cc0313f')", "borough": "Brooklyn", "cuisine": "Chinese", "name": "May May Kitchen", "restaurant_id": "40358429" }
{"_id": "ObjectID('61777b89e58800b1cc03141')", "borough": "Brooklyn", "cuisine": "Jewish/Kosher", "name": "Seuda Foods", "restaurant_id": "40360045" }
{"_id": "ObjectID('61777b89e58800b1cc03142')", "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360076" }
{"_id": "ObjectID('61777b89e58800b1cc03143')", "borough": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }
{"_id": "ObjectID('61777b89e58800b1cc03144')", "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }
{"_id": "ObjectID('61777b89e58800b1cc03146')", "borough": "Brooklyn", "cuisine": "American", "name": "The Movable Feast", "restaurant_id": "40361606" }
{"_id": "ObjectID('61777b89e58800b1cc03147')", "borough": "Queens", "cuisine": "Delicatessen", "name": "Sal'S Deli", "restaurant_id": "40361618" }
{"_id": "ObjectID('61777b89e58800b1cc03149')", "borough": "Queens", "cuisine": "Delicatessen", "name": "Steve Chu'S Deli & Grocery", "restaurant_id": "40361998" }
{"_id": "ObjectID('61777b89e58800b1cc0314d')", "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "White Castle", "restaurant_id": "40362344" }
type "it" for more
```

19. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which are not belonging to the borough Staten Island or Queens or Bronx or Brooklyn.

```
db.addresses.find({"borough":{$in:["Staten Island","Queens","Bronx","Brooklyn"]},"restaurant_id":1,"name":1,"borough":1,"cuisine":1});
{"_id": "ObjectID('61777b89e58800b1cc03135')", "borough": "Manhattan", "cuisine": "Irish", "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841" }
{"_id": "ObjectID('61777b89e58800b1cc03140')", "borough": "Manhattan", "cuisine": "American", "name": "1 East 66Th Street Kitchen", "restaurant_id": "40359480" }
{"_id": "ObjectID('61777b89e58800b1cc03145')", "borough": "Manhattan", "cuisine": "American", "name": "Glorious Food", "restaurant_id": "40361521" }
{"_id": "ObjectID('61777b89e58800b1cc03148')", "borough": "Manhattan", "cuisine": "Delicatessen", "name": "Bully'S Deli", "restaurant_id": "40361708" }
{"_id": "ObjectID('61777b89e58800b1cc0314a')", "borough": "Manhattan", "cuisine": "Chicken", "name": "Harriet'S Kitchen", "restaurant_id": "40362098" }
{"_id": "ObjectID('61777b89e58800b1cc0314b')", "borough": "Manhattan", "cuisine": "American", "name": "P & S Deli Grocery", "restaurant_id": "40362264" }
{"_id": "ObjectID('61777b89e58800b1cc0314c')", "borough": "Manhattan", "cuisine": "American", "name": "Angelika Film Center", "restaurant_id": "40362274" }
{"_id": "ObjectID('61777b89e58800b1cc0314f')", "borough": "Manhattan", "cuisine": "Turkish", "name": "The Country Cafe", "restaurant_id": "40362715" }
{"_id": "ObjectID('61777b89e58800b1cc03151')", "borough": "Manhattan", "cuisine": "American", "name": "Downtown Deli", "restaurant_id": "40363021" }
{"_id": "ObjectID('61777b89e58800b1cc03155')", "borough": "Manhattan", "cuisine": "Bakery", "name": "Olive'S", "restaurant_id": "40363151" }
{"_id": "ObjectID('61777b89e58800b1cc03157')", "borough": "Manhattan", "cuisine": "American", "name": "Cafe Metro", "restaurant_id": "40363298" }
{"_id": "ObjectID('61777b89e58800b1cc03159')", "borough": "Manhattan", "cuisine": "Sandwiches/Salads/Mixed Buffet", "name": "Lexler Deli", "restaurant_id": "403634" }
{"_id": "ObjectID('61777b89e58800b1cc0315d')", "borough": "Manhattan", "cuisine": "Continental", "name": "Lorenzo & Maria'S", "restaurant_id": "40363630" }
{"_id": "ObjectID('61777b89e58800b1cc0315e')", "borough": "Manhattan", "cuisine": "Pizza", "name": "Domino'S Pizza", "restaurant_id": "40363644" }
{"_id": "ObjectID('61777b89e58800b1cc0315f')", "borough": "Manhattan", "cuisine": "American", "name": "Berkely", "restaurant_id": "40363685" }
{"_id": "ObjectID('61777b89e58800b1cc03163')", "borough": "Manhattan", "cuisine": "Pizza", "name": "Domino'S Pizza", "restaurant_id": "40363945" }
{"_id": "ObjectID('61777b89e58800b1cc03164')", "borough": "Manhattan", "cuisine": "American", "name": "Spoon Bread Catering", "restaurant_id": "40364179" }
{"_id": "ObjectID('61777b89e58800b1cc0316a')", "borough": "Manhattan", "cuisine": "Chicken", "name": "Texas Rotisserie", "restaurant_id": "40364304" }
{"_id": "ObjectID('61777b89e58800b1cc0316d')", "borough": "Manhattan", "cuisine": "American", "name": "Metropolitan Club", "restaurant_id": "40364347" }
{"_id": "ObjectID('61777b89e58800b1cc0316e')", "borough": "Manhattan", "cuisine": "American", "name": "Palm Restaurant", "restaurant_id": "40364355" }
type "it" for more
```

20. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which achieved a score which is not more than 10.

```
db.addresses.find({"grades.score":{$not:{$gt:10}}},"restaurant_id":1,"name":1,"borough":1,"cuisine":1});
{"_id": "ObjectID('61777b89e58800b1cc0313e')", "borough": "Brooklyn", "cuisine": "American", "name": "C & C Catering Service", "restaurant_id": "40357437" }
{"_id": "ObjectID('61777b89e58800b1cc03140')", "borough": "Manhattan", "cuisine": "American", "name": "1 East 66Th Street Kitchen", "restaurant_id": "40359480" }
{"_id": "ObjectID('61777b89e58800b1cc03144')", "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }
{"_id": "ObjectID('61777b89e58800b1cc0314d')", "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "White Castle", "restaurant_id": "40362344" }
{"_id": "ObjectID('61777b89e58800b1cc03160')", "borough": "Brooklyn", "cuisine": "American", "name": "Sonny'S Heros", "restaurant_id": "40363744" }
{"_id": "ObjectID('61777b89e58800b1cc03170')", "borough": "Bronx", "cuisine": "American", "name": "Manhem Club", "restaurant_id": "40364363" }
{"_id": "ObjectID('61777b89e58800b1cc0317e')", "borough": "Staten Island", "cuisine": "American", "name": "Great Kills Yacht Club", "restaurant_id": "40364610" }
{"_id": "ObjectID('61777b89e58800b1cc03185')", "borough": "Manhattan", "cuisine": "American", "name": "Serendipity 3", "restaurant_id": "40364863" }
{"_id": "ObjectID('61777b89e58800b1cc03189')", "borough": "Manhattan", "cuisine": "American", "name": "White Horse Tavern", "restaurant_id": "40364958" }
{"_id": "ObjectID('61777b89e58800b1cc03192')", "borough": "Manhattan", "cuisine": "Irish", "name": "Dorrian'S Red Hand Restaurant", "restaurant_id": "40365239" }
{"_id": "ObjectID('61777b89e58800b1cc031e3')", "borough": "Manhattan", "cuisine": "Mexican", "name": "Mexico Lindo Restaurant", "restaurant_id": "40367038" }
{"_id": "ObjectID('61777b89e58800b1cc03203')", "borough": "Brooklyn", "cuisine": "Greek", "name": "El Greco Diner", "restaurant_id": "40367795" }
{"_id": "ObjectID('61777b89e58800b1cc03209')", "borough": "Bronx", "cuisine": "Not Listed/Not Applicable", "name": "The Lark'S Nest", "restaurant_id": "40367946" }
{"_id": "ObjectID('61777b89e58800b1cc0320a')", "borough": "Bronx", "cuisine": "Cafe/Coffee/Tea", "name": "Terrace Cafe", "restaurant_id": "40368018" }
{"_id": "ObjectID('61777b89e58800b1cc0320b')", "borough": "Bronx", "cuisine": "African", "name": "African Terrace", "restaurant_id": "40368021" }
{"_id": "ObjectID('61777b89e58800b1cc0320e')", "borough": "Bronx", "cuisine": "American", "name": "African Market (Baboon Cafe)", "restaurant_id": "40368026" }
{"_id": "ObjectID('61777b89e58800b1cc0320f')", "borough": "Staten Island", "cuisine": "Italian", "name": "Roadhouse Restaurant", "restaurant_id": "40368034" }
{"_id": "ObjectID('61777b89e58800b1cc03231')", "borough": "Manhattan", "cuisine": "French", "name": "Pergola Des Artistes", "restaurant_id": "40369139" }
{"_id": "ObjectID('61777b89e58800b1cc0323d')", "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Mcdonald'S", "restaurant_id": "40369535" }
{"_id": "ObjectID('61777b89e58800b1cc03241')", "borough": "Brooklyn", "cuisine": "American", "name": "The River Cafe", "restaurant_id": "40369608" }
type "it" for more
```

21. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which prepared dish except 'American' and 'Chinees' or restaurant's name begins with letter 'Wil'.


```

> db.addresses.find(
  { $or: [
    { name: /^Wil/ },
    { $and: [
      { "cuisine": { $ne: "American" } },
      { "cuisine": { $ne: "Chinese" } }
    ] } ] }, { "restaurant_id": 1, "name": 1, "borough": 1, "cuisine": 1 } )
{ "_id": ObjectId("61777b89e5880b1cc03133"), "borough": "Bronx", "cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant_id": "38075445" }
{ "_id": ObjectId("61777b89e5880b1cc03134"), "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy'S", "restaurant_id": "30112340" }
{ "_id": ObjectId("61777b89e5880b1cc03135"), "borough": "Manhattan", "cuisine": "Irish", "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841" }
{ "_id": ObjectId("61777b89e5880b1cc03137"), "borough": "Queens", "cuisine": "Jewish/Kosher", "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }
{ "_id": ObjectId("61777b89e5880b1cc03139"), "borough": "Staten Island", "cuisine": "Jewish/Kosher", "name": "Kosher Island", "restaurant_id": "40356442" }
{ "_id": ObjectId("61777b89e5880b1cc0313a"), "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Wilken'S Fine Food", "restaurant_id": "40356483" }
{ "_id": ObjectId("61777b89e5880b1cc0313c"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{ "_id": ObjectId("61777b89e5880b1cc0313d"), "borough": "Bronx", "cuisine": "American", "name": "Wild Asia", "restaurant_id": "40357217" }
{ "_id": ObjectId("61777b89e5880b1cc0313f"), "borough": "Brooklyn", "cuisine": "Chinese", "name": "May May Kitchen", "restaurant_id": "40358429" }
{ "_id": ObjectId("61777b89e5880b1cc03141"), "borough": "Brooklyn", "cuisine": "Jewish/Kosher", "name": "Seuda Foods", "restaurant_id": "40360045" }
{ "_id": ObjectId("61777b89e5880b1cc03142"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360076" }
{ "_id": ObjectId("61777b89e5880b1cc03143"), "borough": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }
{ "_id": ObjectId("61777b89e5880b1cc03144"), "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }
{ "_id": ObjectId("61777b89e5880b1cc03147"), "borough": "Queens", "cuisine": "Delicatessen", "name": "Sal'S Deli", "restaurant_id": "40361618" }
{ "_id": ObjectId("61777b89e5880b1cc03148"), "borough": "Manhattan", "cuisine": "Delicatessen", "name": "Bully'S Deli", "restaurant_id": "40361708" }
{ "_id": ObjectId("61777b89e5880b1cc03149"), "borough": "Queens", "cuisine": "Delicatessen", "name": "Steve Chu'S Deli & Grocery", "restaurant_id": "40361998" }
{ "_id": ObjectId("61777b89e5880b1cc0314a"), "borough": "Manhattan", "cuisine": "Chicken", "name": "Harriet'S Kitchen", "restaurant_id": "40362098" }
{ "_id": ObjectId("61777b89e5880b1cc0314d"), "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "White Castle", "restaurant_id": "40362344" }
{ "_id": ObjectId("61777b89e5880b1cc0314e"), "borough": "Queens", "cuisine": "Chinese", "name": "Ho Mei Restaurant", "restaurant_id": "40362432" }
{ "_id": ObjectId("61777b89e5880b1cc0314f"), "borough": "Manhattan", "cuisine": "Turkish", "name": "The Country Cafe", "restaurant_id": "40362715" }
type "it" for more

```

22. Write a MongoDB query to find the restaurant Id, name, and grades for those restaurants which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11T00:00:00Z" among many of survey dates..

```

> db.addresses.find(
  {
    "grades.date": ISODate("2014-08-11T00:00:00Z"),
    "grades.grade": "A",
    "grades.score": 11
  },
  { "restaurant_id": 1, "name": 1, "grades": 1 } )
{ "_id": ObjectId("61777b89e5880b1cc031b1"), "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" }
{ "_id": ObjectId("61777b89e5880b1cc0328c"), "grades": [ { "date": ISODate("2014-08-11T00:00:00Z"), "grade": "A", "score": 11 }, { "date": ISODate("2013-12-10T00:00:00Z"), "grade": "A", "score": 13 }, { "date": ISODate("2012-01-25T00:00:00Z"), "grade": "A", "score": 8 }, { "date": ISODate("2011-09-13T00:00:00Z"), "grade": "A", "score": 12 } ], "name": "Don Filippo Restaurant", "restaurant_id": "40372417" }
{ "_id": ObjectId("61777b89e5880b1cc03552"), "grades": [ { "date": ISODate("2014-08-11T00:00:00Z"), "grade": "A", "score": 6 }, { "date": ISODate("2013-08-29T00:00:00Z"), "grade": "A", "score": 13 }, { "date": ISODate("2013-04-25T00:00:00Z"), "grade": "C", "score": 12 }, { "date": ISODate("2012-10-23T00:00:00Z"), "grade": "A", "score": 13 }, { "date": ISODate("2012-04-16T00:00:00Z"), "grade": "A", "score": 11 }, { "date": ISODate("2011-11-15T00:00:00Z"), "grade": "A", "score": 12 } ], "name": "Mustang Sally'S Restaurant", "restaurant_id": "40397374" }
{ "_id": ObjectId("61777b89e5880b1cc0375e"), "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" }

```

23. Write a MongoDB query to find the restaurant Id, name and grades for those restaurants where the 2nd element of grades array contains a grade of "A" and score 9 on an ISODate "2014-08-11T00:00:00Z"

```

> 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 } )
{ "_id": ObjectId("61777b89e5880b1cc0375e"), "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. Write a MongoDB query to find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of coord array contains a value which is more than 42 and upto 52.

```

> db.addresses.find(
  {
    "address.coord.1": { $gt: 42, $lte: 52 }
  },
  { "restaurant_id": 1, "name": 1, "address": 1, "coord": 1 } )
{ "_id": ObjectId("61777b89e5880b1cc033d5"), "address": { "building": "47", "coord": [ -87.877224, 42.89546199999999 ], "street": "Broadway @ Trinity Pl", "zipcode": "10006" }, "name": "T.G.I. Friday'S", "restaurant_id": "40387990" }
{ "_id": ObjectId("61777b89e5880b1cc03401"), "address": { "building": "1", "coord": [ -0.7119979, 51.6514664 ], "street": "Pennplaza E, Penn Sta", "zipcode": "10001" }, "name": "T.G.I. Fridays", "restaurant_id": "40388936" }
{ "_id": ObjectId("61777b89e5880b1cc0365a"), "address": { "building": "3000", "coord": [ -87.86567699999999, 42.61150920000001 ], "street": "47 Avenue", "zipcode": "11101" }, "name": "Di Luvio'S Deli", "restaurant_id": "40402284" }
{ "_id": ObjectId("61777b89e5880b1cc0388f"), "address": { "building": "21972199", "coord": [ -78.589606, 42.8912372 ], "street": "Broadway", "zipcode": "10024" }, "name": "La Caridad 78", "restaurant_id": "40568285" }
{ "_id": ObjectId("61777b89e5880b1cc03f61"), "address": { "building": "7981", "coord": [ -84.9751215, 45.4713351 ], "street": "Hoyt Street", "zipcode": "11201" }, "name": "Bijan'S", "restaurant_id": "40876618" }
{ "_id": ObjectId("61777b89e5880b1cc03f76"), "address": { "building": "0", "coord": [ -88.0778799, 42.4154769 ], "street": "& Grand Central", "zipcode": "10017" }, "name": "Hyatt, Ny Central/Room Service", "restaurant_id": "40879243" }
{ "_id": ObjectId("61777b89e5880b1cc03f8c"), "address": { "building": "00", "coord": [ -111.9975205, 42.0970258 ], "street": "West Side Highway", "zipcode": "10006" }, "name": "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id": "40882350" }

```

25. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.

```

> db.addresses.find().sort({"name":1})
{ "_id" : ObjectId("61777b8ae5880b1cc003dc3"), "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" }
{ "_id" : ObjectId("61777b8ae5880b1cc003140"), "address" : { "building" : "1", "coord" : [ -73.96926909999999, 40.7685235 ], "street" : "East 66 Street", "zipcode" : "10065" },
  "borough" : "Manhattan", "cuisine" : "American", "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("61777b8ae5880b1cc003952"), "address" : { "building" : "10016", "coord" : [ -73.8216636, 40.5838155 ], "street" : "Rockaway Beach Boulevard", "zipcode" : "11694" },
  "borough" : "Queens", "cuisine" : "Delicatessen", "grades" : [ { "date" : ISODate("2014-01-28T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-08-20T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-03-19T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-03-06T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-03-01T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "101 Deli", "restaurant_id" : "40591271" }

```

26. Write a MongoDB query to arrange the name of the restaurants in descending along with all the columns.

```

> db.addresses.find().sort(
  { "name" : -1 }
)
{ "_id" : ObjectId("61777b8ae5880b1cc0031f2"), "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("2011-12-20T00:00:00Z"), "grade" : "B", "score" : 24 } ], "name" : "Zum Stammtisch", "restaurant_id" : "40367377" }
{ "_id" : ObjectId("61777b8ae5880b1cc003d2c"), "address" : { "building" : "107109", "coord" : [ -73.9744668, 40.731155 ], "street" : "Avenue C", "zipcode" : "10009" },
  "borough" : "Manhattan", "cuisine" : "German", "grades" : [ { "date" : ISODate("2014-03-04T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2013-08-21T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-02-27T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-06-05T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-12-20T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-07-15T00:00:00Z"), "grade" : "A", "score" : 6 } ]

```

27. Write a MongoDB query to arranged the name of the cuisine in ascending order and for that same cuisine borough should be in descending order.

```

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

```

28. Write a MongoDB query to know whether all the addresses contains the street or not.

```

db.addresses.find(
  { "address.street" :
    { $exists : true }
  }
)

```

29. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.

```

db.addresses.find(
  { "address.coord" :
    { $type : 1 }
  }
)

```

30. Write a MongoDB query which will select the restaurant Id, name and grades for those restaurants which returns 0 as a remainder after dividing the score by 7.

```

db.addresses.find(
  { "grades.score" :
    { $mod : [ 7, 0 ] }
  },
  { "restaurant_id" : 1, "name" : 1, "grades" : 1 }
)

```

31. Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contains 'mon' as three letters somewhere in its name.

```

db.addresses.find(

```



```
{ name :  
  { $regex : "mon.*", $options: "i" }  
},  
  {  
    "name":1,  
    "borough":1,  
    "address.coord":1,  
    "cuisine" :1  
  }  
}
```

32. Write a MongoDB query to find the restaurant name, borough, longitude and latitude and cuisine for those restaurants which contain 'Mad' as first three letters of its name.

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