

MongoDB Exercises - With the Restaurants Data Set

1. Download the restaurants.zip file
2. Unzip the file, you will see restaurants.json file
3. Run the mongod server

```
C:\Windows\System32\cmd.exe - mongod
Microsoft Windows [Version 10.0.18363.1440]
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C:\Users\LENOVO\Downloads>mongod
C:\Users\LENOVO\Downloads>mongod
{"t":{"sdate":"2021-05-21T04:34:09.963+05:30"},"s":"I", "c":"CONTROL", "id":23285, "ctx":"main","msg":"Automatically disabling TLS
ify --sslDisabledProtocols 'none'"}
{"t":{"sdate":"2021-05-21T04:34:09.970+05:30"},"s":"W", "c":"ASIO", "id":22601, "ctx":"main","msg":"No TransportLayer configured
"}
{"t":{"sdate":"2021-05-21T04:34:09.976+05:30"},"s":"I", "c":"NETWORK", "id":4648602, "ctx":"main","msg":"Implicit TCP FastOpen in use
"}
{"t":{"sdate":"2021-05-21T04:34:09.978+05:30"},"s":"I", "c":"STORAGE", "id":4615611, "ctx":"initandlisten","msg":"MongoDB starting",
dbPath":"C:/data/db/", "architecture":"64-bit", "host":"DESKTOP-LENOVO"}}
{"t":{"sdate":"2021-05-21T04:34:09.978+05:30"},"s":"I", "c":"CONTROL", "id":23398, "ctx":"initandlisten","msg":"Target operating sy
rgeMinOS":"Windows 7/Windows Server 2008 R2"}}
{"t":{"sdate":"2021-05-21T04:34:09.978+05:30"},"s":"I", "c":"CONTROL", "id":23403, "ctx":"initandlisten","msg":"Build Info", "attr":
gitVersion":"72e66213c2c3eab37d9358d5e78ad7f5c1d0d0d7", "modules":[], "allocator":"tcmalloc", "environment":{"distmod":"windows", "distarch
}}}}
{"t":{"sdate":"2021-05-21T04:34:09.978+05:30"},"s":"I", "c":"CONTROL", "id":51765, "ctx":"initandlisten","msg":"Operating System", "
ndows 10", "version":"10.0 (build 18363)"}
{"t":{"sdate":"2021-05-21T04:34:09.979+05:30"},"s":"I", "c":"CONTROL", "id":21951, "ctx":"initandlisten","msg":"Options set by comm
"}
{"t":{"sdate":"2021-05-21T04:34:09.984+05:30"},"s":"I", "c":"STORAGE", "id":22270, "ctx":"initandlisten","msg":"Storage engine to u
: ("dbpath":"C:/data/db/", "storageEngine":"wiredTiger")
{"t":{"sdate":"2021-05-21T04:34:09.986+05:30"},"s":"I", "c":"STORAGE", "id":22315, "ctx":"initandlisten","msg":"Opening WiredTiger"
ize=1489M, session_max=33000, eviction=(threads_min=4, threads_max=4), config_base=false, statistics=(fast), log=(enabled=true, archive=true, p
le_manager=(close_idle_time=100000, close_scan_interval=10, close_handle_minimum=250), statistics_log=(wait=0), verbose=[recovery_progress,
ess], "")
{"t":{"sdate":"2021-05-21T04:34:10.577+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message"
77367}[11704:140732180356768], txn-recover: [WT VERB RECOVERY_PROGRESS] Recovering log 5 through 6"}
{"t":{"sdate":"2021-05-21T04:34:10.721+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message"
21707}[11704:140732180356768], txn-recover: [WT VERB RECOVERY_PROGRESS] Recovering log 6 through 6"}
{"t":{"sdate":"2021-05-21T04:34:10.920+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message"
20179}[11704:140732180356768], txn-recover: [WT VERB RECOVERY | WT VERB RECOVERY_PROGRESS] Main recovery loop: starting at 5/59648 to 6
{"t":{"sdate":"2021-05-21T04:34:11.132+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message"
31619}[11704:140732180356768], txn-recover: [WT VERB RECOVERY_PROGRESS] Recovering log 5 through 6"}
{"t":{"sdate":"2021-05-21T04:34:11.305+05:30"},"s":"I", "c":"STORAGE", "id":22430, "ctx":"initandlisten","msg":"WiredTiger message"
}
```

4. Run the following command to import the json file provided. It will load the json file into the mongod with database name - restaurants, collections name - addresses.

```
C:\Windows\System32\cmd.exe
C:\Program Files\MongoDB\Server\4.0\bin>mongoimport --db restaurants --collection addresses --file "C:\Users\LENOVO\Downloads\iTransfo
rm Assignments\restaurants.json"
2021-05-21T07:14:41.099+0530 connected to: localhost
2021-05-21T07:14:42.042+0530 [#####] restaurants.addresses 540KB/1.94MB (27.2%)
2021-05-21T07:14:43.061+0530 [#####] restaurants.addresses 1.94MB/1.94MB (100.0%)
2021-05-21T07:14:43.061+0530 imported 3772 documents
```

5. Run mongo shell command.

```
C:\Windows\System32\cmd.exe - mongo
C:\Program Files\MongoDB\Server\4.0\bin>mongo
MongoDB shell version v4.0.2
connecting to: mongodb://127.0.0.1:27017
MongoDB server version: 4.0.2
Server has startup warnings:
2021-05-19T14:38:04.878+0530 I CONTROL [initandlisten]
2021-05-19T14:38:04.879+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2021-05-19T14:38:04.879+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2021-05-19T14:38:04.879+0530 I CONTROL [initandlisten]
---
Enable MongoDB's free cloud-based monitoring service, which will then receive and display
metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you
and anyone you share the URL with. MongoDB may use this information to make product
improvements and to suggest MongoDB products and deployment options to you.

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

6. show databases

```
> show dbs
ContactDB      0.000GB
Users          0.000GB
admin          0.000GB
config         0.000GB
local          0.000GB
mongo_login   0.000GB
movie-bag      0.000GB
movies_practice 0.000GB
population     0.002GB
restaurants    0.001GB
task_manager   0.000GB
```

7. use restaurants

```
C:\Windows\System32\cmd.exe - mongo
> use restaurants
switched to db restaurants
```

8. db.addresses.find() should print entire json data

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find().pretty()
{
  "_id" : ObjectId("60a71089a048c975f515cd83"),
  "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",

```

9. Then start working on the following exercises and submit your queries as the answers to the questions Query Reference Links and Cheat sheets.

Exercise Solutions

1. To display all the documents in the collection restaurants.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find()
{ "_id" : ObjectId("60a71089a048c975f515cd83"), "address" : { "building" : "469", "coord" : [ -73.961704, 40.662942 ], "street" : "Fla
tbush 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("60a71089a048c975f515cd84"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Mo
rris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00
Z"), "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("60a71089a048c975f515cd85"), "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 } ], "n
ame" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("60a71089a048c975f515cd86"), "address" : { "building" : "8825", "coord" : [ -73.8803827, 40.7643124 ], "street" : "
Astoria Boulevard", "zipcode" : "11369" }, "borough" : "Queens", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-11-15T
00:00:00Z"), "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("60a71089a048c975f515cd87"), "address" : { "building" : "2206", "coord" : [ -74.1377286, 40.6119572 ], "street" : "
Victory Boulevard", "zipcode" : "10314" }, "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("2013-08-03T00:00:00Z"), "grade" : "A", "score" : 12 }, { "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("60a71089a048c975f515cd88"), "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("60a71089a048c975f515cd89"), "address" : { "building" : "1839", "coord" : [ -73.9482609, 40.6408271 ], "street" : "

```

2. To display the fields restaurant_id, name, borough and cuisine for all the documents in the collection restaurant.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({}, {_id:1, name:1, cuisine: 1, borough: 1, restaurant_id:1})
{ "_id" : ObjectId("60a71089a048c975f515cd83"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("60a71089a048c975f515cd84"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("60a71089a048c975f515cd85"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("60a71089a048c975f515cd86"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "_id" : ObjectId("60a71089a048c975f515cd87"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "_id" : ObjectId("60a71089a048c975f515cd88"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("60a71089a048c975f515cd89"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "_id" : ObjectId("60a71089a048c975f515cd8a"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "_id" : ObjectId("60a71089a048c975f515cd8b"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
{ "_id" : ObjectId("60a71089a048c975f515cd8c"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant_id" : "40358429" }
{ "_id" : ObjectId("60a71089a048c975f515cd8d"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("60a71089a048c975f515cd8e"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "_id" : ObjectId("60a71089a048c975f515cd8f"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("60a71089a048c975f515cd90"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "_id" : ObjectId("60a71089a048c975f515cd91"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "_id" : ObjectId("60a71089a048c975f515cd92"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }

```

3. To display the fields restaurant_id, name, borough and cuisine, but exclude the field _id for all the documents in the collection restaurant.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({}, {_id:0, name:1, cuisine: 1, borough: 1, restaurant_id: 1})
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "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" : "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" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
{ "borough" : "Manhattan", "cuisine" : "American ", "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "The Movable Feast", "restaurant_id" : "40361606" }
Type "it" for more
```

4. To display the fields restaurant_id, name, borough and zip code, but exclude the field _id for all the documents in the collection restaurant.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({}, {_id:0, name:1, cuisine: 1, borough: 1, restaurant_id: 1, "address.zipcode": 1})
{ "address" : { "zipcode" : "11225" }, "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "address" : { "zipcode" : "11374" }, "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "address" : { "zipcode" : "11369" }, "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "address" : { "zipcode" : "10314" }, "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "address" : { "zipcode" : "11234" }, "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "address" : { "zipcode" : "11226" }, "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "address" : { "zipcode" : "10460" }, "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "address" : { "zipcode" : "11214" }, "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
{ "address" : { "zipcode" : "11208" }, "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant_id" : "40358429" }
{ "address" : { "zipcode" : "11224" }, "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "address" : { "zipcode" : "10019" }, "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "address" : { "zipcode" : "11219" }, "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "address" : { "zipcode" : "11223" }, "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "address" : { "zipcode" : "11004" }, "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "address" : { "zipcode" : "11218" }, "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
```

5. To display all the restaurants which are in borough Bronx.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"borough" : "Bronx"})
{ "_id" : ObjectId("60a71089a048c975f515cd84"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-01-24T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "grade" : "A", "score" : 6 }, { "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" : "3006" }, { "_id" : ObjectId("60a71089a048c975f515cd8a"), "address" : { "building" : "2300", "coord" : [ -73.8786113, 40.8502883 ], "street" : "Southern Boulevard", "zipcode" : "10460" }, "borough" : "Bronx", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2012-06-15T00:00:00Z"), "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("60a71089a048c975f515cda0"), "address" : { "building" : "1006", "coord" : [ -73.84856870000002, 40.89037 ], "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("60a71089a048c975f515cda4"), "address" : { "building" : "1236", "coord" : [ -73.8893654, 40.813761799999 ], "street" : "238 Spofford Ave", "zipcode" : "10474" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2013-01-08T00:00:00Z"), "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("60a71089a048c975f515cdb9"), "address" : { "building" : "277", "coord" : [ -73.8941893, 40.8634684 ], "street" : "East Kingsbridge Road", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2013-09-26T00:00:00Z"), "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" : 10 }, { "date" : ISODate("2011-08-17T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Happy Garden", "restaurant_id" : "40363289" }, { "_id" : ObjectId("60a71089a048c975f515cdbc"), "address" : { "building" : "658", "coord" : [ -73.81363999999999, 40.829411 ], "street" : "Clarence Ave", "zipcode" : "10465" }, "borough" : "Bronx", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2012-07-11T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2012-07-11T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Manhem Club", "restaurant_id" : "40364363" }, { "_id" : ObjectId("60a71089a048c975f515cddc"), "address" : { "building" : "2222", "coord" : [ -73.84971759999999, 40.83046 ], "street" : "Haviland Avenue", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-05-01T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-05-01T00:00:00Z"), "grade" : "B", "score" : 17 } ], "name" : "Haviland Avenue", "restaurant_id" : "40364363" }
```

6. To display the first 5 restaurants which are in the borough Bronx.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"borough" : "Bronx"}).limit(5)
{ "_id" : ObjectId("60a71089a048c975f515cd84"), "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-01-24T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "grade" : "A", "score" : 6 }, { "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" : "3006" }, { "_id" : ObjectId("60a71089a048c975f515cd8a"), "address" : { "building" : "2300", "coord" : [ -73.8786113, 40.8502883 ], "street" : "Southern Boulevard", "zipcode" : "10460" }, "borough" : "Bronx", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2012-06-15T00:00:00Z"), "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("60a71089a048c975f515cda0"), "address" : { "building" : "1006", "coord" : [ -73.84856870000002, 40.89037 ], "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("60a71089a048c975f515cda4"), "address" : { "building" : "1236", "coord" : [ -73.8893654, 40.813761799999 ], "street" : "238 Spofford Ave", "zipcode" : "10474" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2013-01-08T00:00:00Z"), "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("60a71089a048c975f515cdb9"), "address" : { "building" : "277", "coord" : [ -73.8941893, 40.8634684 ], "street" : "East Kingsbridge Road", "zipcode" : "10458" }, "borough" : "Bronx", "cuisine" : "Chinese", "grades" : [ { "date" : ISODate("2013-09-26T00:00:00Z"), "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" : 10 }, { "date" : ISODate("2011-08-17T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Happy Garden", "restaurant_id" : "40363289" }
```

7. To display the next 5 restaurants after skipping the first 5 which are in the borough Bronx.


```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"borough" : "Bronx"}).skip(5).limit(5)
{ "_id" : ObjectId("60a71089a048c975f515cdbc"), "address" : { "building" : "658", "coord" : [ -73.81363999999999, 40.829411 ], "street" : "Clarence Ave", "zipcode" : "10465" }, "borough" : "Bronx", "cuisine" : "American", "grades" : [ { "date" : ISODate("2012-07-11T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2012-07-11T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Manhem Club", "restaurant_id" : "40364363" }, { "_id" : ObjectId("60a7108aa048c975f515cddc"), "address" : { "building" : "2222", "coord" : [ -73.84971759999999, 40.83048 ], "street" : "Haviland Avenue", "zipcode" : "10462" }, "borough" : "Bronx", "cuisine" : "American", "grades" : [ { "date" : ISODate("2012-09-20T00:00:00Z"), "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" : 19 }, { "date" : ISODate("2012-02-08T00:00:00Z"), "grade" : "B", "score" : 19 } ], "name" : "The New Starling Athletic Club Of", "restaurant_id" : "40364956" }, { "_id" : ObjectId("60a7108aa048c975f515cdef"), "address" : { "building" : "72", "coord" : [ -73.92506, 40.8275556 ], "street" : "161 Street", "zipcode" : "10451" }, "borough" : "Bronx", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-03-26T00:00:00Z"), "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" : "4036499" }, { "_id" : ObjectId("60a7108aa048c975f515ce01"), "address" : { "building" : "331", "coord" : [ -73.87786539999999, 40.872437 ], "street" : "East 204 Street", "zipcode" : "10467" }, "borough" : "Bronx", "cuisine" : "Irish", "grades" : [ { "date" : ISODate("2014-03-26T00:00:00Z"), "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" : 13 }, { "date" : ISODate("2011-10-20T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "McDwyers Pub", "restaurant_id" : "4036499" }, { "_id" : ObjectId("60a7108aa048c975f515ce1a"), "address" : { "building" : "5820", "coord" : [ -73.9002615, 40.885186 ], "street" : "East 6 Street", "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("2012-11-20T00:00:00Z"), "grade" : "B", "score" : 18 }, { "date" : ISODate("2011-10-17T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-06-22T00:00:00Z"), "grade" : "C", "score" : 10 }, { "date" : ISODate("2011-06-22T00:00:00Z"), "grade" : "C", "score" : 10 } ], "name" : "The Punch Bowl", "restaurant_id" : "40366497" }

```

8. To find the restaurants who achieved a score more than 90.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"grades.score" : {"$gt" : 90}})
{ "_id" : ObjectId("60a7108aa048c975f515cee0"), "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" : 13 }, { "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("60a7108aa048c975f515cf82"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "street" : "East 6 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "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" }, { "_id" : ObjectId("60a7108aa048c975f515d0e4"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.7457939 ], "street" : "Madison Avenue", "zipcode" : "10016" }, "borough" : "Manhattan", "cuisine" : "Pizza/Italian", "grades" : [ { "date" : ISODate("2014-06-17T00:00:00Z"), "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" : 2 }, { "date" : ISODate("2012-05-02T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Bella Napoli", "restaurant_id" : "40756344" }

```

9. To find the restaurants that achieved a score, more than 80 but less than 100.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"$and" : [{"grades.score" : {"$gt" : 80}}, {"grades.score" : {"$lt" : 100}}]})
{ "_id" : ObjectId("60a7108aa048c975f515cee0"), "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" : 13 }, { "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("60a7108aa048c975f515cf82"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "street" : "East 6 Street", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "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" }, { "_id" : ObjectId("60a7108aa048c975f515d0e4"), "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" : "C", "score" : 98 }, { "date" : ISODate("2013-12-12T00:00:00Z"), "grade" : "C", "score" : 32 }, { "date" : ISODate("2013-05-22T00:00:00Z"), "grade" : "B", "score" : 2 }, { "date" : ISODate("2012-05-02T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Bella Napoli", "restaurant_id" : "40756344" }, { "_id" : ObjectId("60a7108ba048c975f515d955"), "address" : { "building" : "", "coord" : [ -74.0163793, 40.7167671 ], "street" : "Hudson Street", "zipcode" : "10014", "borough" : "Manhattan", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-06-27T00:00:00Z"), "grade" : "C", "score" : 89 }, { "date" : ISODate("2012-06-19T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "West", "restaurant_id" : "40756344" }

```

10. To find the restaurants which are located in latitude values less than -95.754168.

```
> db.addresses.find({"address.coord.0" : {$lt : -95.754168}})
{"_id" : ObjectId("60a7188aa048c975f515d3ca"), "address" : { "building" : "3707", "coord" : [ -101.8945214, 33.5197474 ], "82 Street", "zipcode" : "11372", "borough" : "Queens", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-09-07T00:00:00Z"), "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" : 10 }, { "date" : ISODate("2012-04-03T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-11-16T00:00:00Z"), "grade" : "C", "score" : 7 }, { "name" : "Burger King", "restaurant_id" : "40534067" } }, {"_id" : ObjectId("60a7188aa048c975f515d738"), "address" : { "building" : "15259", "coord" : [ -119.6368672, 36.2504996 ], "10 Avenue", "zipcode" : "11357", "borough" : "Queens", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-09-07T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2014-03-26T00:00:00Z"), "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("60a7188ba048c975f515dbdd"), "address" : { "building" : "60", "coord" : [ -111.9975205, 42.0970258 ], "West Side Highway", "zipcode" : "10006", "borough" : "Manhattan", "cuisine" : "Japanese", "grades" : [ { "date" : ISODate("2014-09-07T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-06-28T00:00:00Z"), "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" : 10 }, { "name" : "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id" : "40882356" } }
```

11. 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.

```
> db.addresses.find({$and: [{ "cuisine": {$ne: "American" }}, { "address.coord.0" : {$lt : -65.754168}}, { "grades.score" : 20 } ]})
{ "_id" : ObjectId("60a7108aa048c975f515cf82"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "street" : "East 6 Street", "zipcode" : "10003", "borough" : "Manhattan", "cuisine" : "Indian", "grades" : [ { "date" : ISODate("2014-06-07T00:00:00Z"), "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" : 10 }, { "date" : ISODate("2012-10-01T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-04-06T00:00:00Z"), "grade" : "A", "score" : 92 }, { "date" : ISODate("2011-11-03T00:00:00Z"), "grade" : "C", "score" : 41 } ], "name" : "Gandhi", "restaurant_id" : "40393688" },
{ "_id" : ObjectId("60a7108aa048c975f515d0e4"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.7457939 ], "street" : "Madison Avenue", "zipcode" : "10016", "borough" : "Manhattan", "cuisine" : "Pizza/Italian", "grades" : [ { "date" : ISODate("2014-06-07T00:00:00Z"), "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" : 26 }, { "date" : ISODate("2012-05-02T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Bella Napoli", "restaurant_id" : "40400561" },
{ "_id" : ObjectId("60a7108aa048c975f515d0f0"), "address" : { "building" : "101", "coord" : [ -73.9243061, 40.8276297 ], "street" : "East 161 Street", "zipcode" : "10451", "borough" : "Bronx", "cuisine" : "Latin (Cuban, Dominican, Puerto Rican, South & Central American)", "grades" : [ { "date" : ISODate("2014-04-10T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2013-04-11T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2012-10-25T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-10-10T00:00:00Z"), "grade" : "P", "score" : 128 }, { "date" : ISODate("2012-05-25T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2011-09-14T00:00:00Z"), "grade" : "A", "score" : 26 }, { "date" : ISODate("2011-04-25T00:00:00Z"), "grade" : "C", "score" : 76 } ], "name" : "El Molino Rojo Restaurant", "restaurant_id" : "40393688" },
{ "_id" : ObjectId("60a7108aa048c975f515d242"), "address" : { "building" : "289", "coord" : [ -73.94610279999999, 40.71375 ], "street" : "Manhattan Avenue", "zipcode" : "11211", "borough" : "Brooklyn", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-06-07T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-05-07T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-09-11T00:00:00Z"), "grade" : "B", "score" : 8 }, { "date" : ISODate("2012-04-18T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-09-27T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2011-05-03T00:00:00Z"), "grade" : "C", "score" : 77 } ], "name" : "Fortunato Bros C", "restaurant_id" : "40400561" },
{ "_id" : ObjectId("60a7108aa048c975f515d86c"), "address" : { "building" : "231", "coord" : [ -73.9772294, 40.7527262 ], "street" : "Grand Central Station", "zipcode" : "10017", "borough" : "Manhattan", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-06-07T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-05-07T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-09-11T00:00:00Z"), "grade" : "B", "score" : 8 }, { "date" : ISODate("2012-04-18T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-09-27T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2011-05-03T00:00:00Z"), "grade" : "C", "score" : 77 } ], "name" : "Fortunato Bros C", "restaurant_id" : "40400561" }
```

12. 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.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({'$and': [{'cuisine': {'$ne': 'American'}}, {'address.coord.1': {'$lt': -65.754168}}, {'grades.score': {'$gt': 70}}]})
```

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

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"$and": [{"cuisine": {"$ne": "American"}}, {"grades.grade": "A"}, {"borough": {"$ne": "Brooklyn"}}]).sort({"cuisine": -1})
{ "_id": ObjectId("60a7108aa048c975f515d48d"), "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" }
{ "_id": ObjectId("60a7108aa048c975f515d54a"), "address": { "building": "8278", "coord": [ -73.88143509999999, 40.7412552 ], "street": "Broadway", "zipcode": "11373" }, "borough": "Queens", "cuisine": "Vietnamese/Cambodian/Malaysia", "grades": [ { "date": ISODate("2014-06-12T00:00:00Z"), "grade": "B", "score": 21 }, { "date": ISODate("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": ISODate("2012-05-04T00:00:00Z"), "grade": "B", "score": 27 } ], "name": "Pho Bac Vietnamese Seafood Cuisine", "restaurant_id": "40578058" }
{ "_id": ObjectId("60a7108aa048c975f515d933"), "address": { "building": "148", "coord": [ -74.000254, 40.7172727 ], "street": "Centre Street", "zipcode": "10013" }, "borough": "Manhattan", "cuisine": "Vietnamese/Cambodian/Malaysia", "grades": [ { "date": ISODate("2014-10-01T00:00:00Z"), "grade": "A", "score": 7 }, { "date": ISODate("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("60a7108aa048c975f515d033"), "address": { "building": "300", "coord": [ -73.985568, 40.7307496 ], "street": "East 12 Street", "zipcode": "10003" }, "borough": "Manhattan", "cuisine": "Vegetarian", "grades": [ { "date": ISODate("2014-02-05T00:00:00Z"), "grade": "A", "score": 13 }, { "date": ISODate("2013-04-24T00:00:00Z"), "grade": "B", "score": 19 }, { "date": ISODate("2012-01-17T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2011-07-25T00:00:00Z"), "grade": "A", "score": 10 } ], "name": "Angelica Kitchen", "restaurant_id": "40388281" }
{ "_id": ObjectId("60a7108aa048c975f515d1e7"), "address": { "building": "1307", "coord": [ -73.9589834, 40.77141839999999 ], "street": "3 Avenue", "zipcode": "10021" }, "borough": "Manhattan", "cuisine": "Vegetarian", "grades": [ { "date": ISODate("2014-12-03T00:00:00Z"), "grade": "A", "score": 9 }, { "date": ISODate("2014-02-18T00:00:00Z"), "grade": "B", "score": 22 }, { "date": ISODate("2013-06-25T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2012-06-28T00:00:00Z"), "grade": "A", "score": 12 } ], "name": "Candle Cafe", "restaurant_id": "40399007" }
{ "_id": ObjectId("60a7108aa048c975f515d351"), "address": { "building": "547", "coord": [ -92.7292446, 41.7461746 ], "street": "6 Avenue", "zipcode": "10011" }, "borough": "Manhattan", "cuisine": "Vegetarian", "grades": [ { "date": ISODate("2014-09-26T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2014-04-07T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2013-03-08T00:00:00Z"), "grade": "B", "score": 14 }, { "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. To find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"name": {"$regex": /^Wil.*$/}}, {"_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
{ "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Wilken's Fine Food", "restaurant_id": "40356483" }
{ "borough": "Bronx", "cuisine": "American", "name": "Wild Asia", "restaurant_id": "40357217" }
{ "borough": "Bronx", "cuisine": "Pizza", "name": "Wilbel Pizza", "restaurant_id": "40871979" }

```

15. To find the restaurant Id, name, borough and cuisine for those restaurants which contain 'ces' as the last three letters for its name.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"name": {"$regex": /.ces$/}}, {"_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
{ "borough": "Manhattan", "cuisine": "American", "name": "Pieces", "restaurant_id": "40399910" }
{ "borough": "Queens", "cuisine": "American", "name": "S.M.R Restaurant Services", "restaurant_id": "40403857" }
{ "borough": "Manhattan", "cuisine": "American", "name": "Good Shepherd Services", "restaurant_id": "40403989" }
{ "borough": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "The Ice Box-Ralph's Famous Italian Ices", "restaurant_id": "40690899" }
{ "borough": "Brooklyn", "cuisine": "Jewish/Kosher", "name": "Alices", "restaurant_id": "40782042" }
{ "borough": "Manhattan", "cuisine": "American", "name": "Re: Sources", "restaurant_id": "40876068" }

```

16. To find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Reg' as three letters somewhere in its name.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"name": {"$regex": /Reg/}}, {"_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
{ "borough": "Brooklyn", "cuisine": "American", "name": "Regina Caterers", "restaurant_id": "40356649" }
{ "borough": "Manhattan", "cuisine": "Café/Coffee/Tea", "name": "Caffe Reggio", "restaurant_id": "40369418" }
{ "borough": "Manhattan", "cuisine": "American", "name": "Regency Hotel", "restaurant_id": "40382679" }
{ "borough": "Manhattan", "cuisine": "American", "name": "Regency Whist Club", "restaurant_id": "40402377" }
{ "borough": "Queens", "cuisine": "American", "name": "Rego Park Cafe", "restaurant_id": "40523342" }
{ "borough": "Queens", "cuisine": "Pizza", "name": "Regina Pizza", "restaurant_id": "40801325" }
{ "borough": "Manhattan", "cuisine": "American", "name": "Regal Entertainment Group", "restaurant_id": "40891782" }

```


17. To find the restaurants which belong to the borough Bronx and prepare either American or Chinese dishes.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({'borough': 'Bronx', 'cuisine': {'$in': ['American', 'Chinese']}}, {'_id:0, restaurant_id:1, name:1, borough:1, cuisine:1'})
{ "borough": "Bronx", "cuisine": "American", "name": "Wild Asia", "restaurant_id": "40357217" }
{ "borough": "Bronx", "cuisine": "Chinese", "name": "Happy Garden", "restaurant_id": "40363289" }
{ "borough": "Bronx", "cuisine": "Chinese", "name": "Happy Garden", "restaurant_id": "40364296" }
{ "borough": "Bronx", "cuisine": "American", "name": "Manhem Club", "restaurant_id": "40364363" }
{ "borough": "Bronx", "cuisine": "American", "name": "The New Starling Athletic Club Of The Bronx", "restaurant_id": "40364956" }

{ "borough": "Bronx", "cuisine": "American", "name": "Yankee Tavern", "restaurant_id": "40365499" }
{ "borough": "Bronx", "cuisine": "American", "name": "The Punch Bowl", "restaurant_id": "40366497" }
{ "borough": "Bronx", "cuisine": "American", "name": "Munchtime", "restaurant_id": "40366748" }
{ "borough": "Bronx", "cuisine": "American", "name": "Marina Delray", "restaurant_id": "40367161" }
{ "borough": "Bronx", "cuisine": "American", "name": "Cool Zone", "restaurant_id": "40368022" }
{ "borough": "Bronx", "cuisine": "American", "name": "African Market (Baboon Cafe)", "restaurant_id": "40368026" }
{ "borough": "Bronx", "cuisine": "American", "name": "Beaver Pond", "restaurant_id": "40368025" }
{ "borough": "Bronx", "cuisine": "American", "name": "Blue Bay Restaurant", "restaurant_id": "40369087" }
{ "borough": "Bronx", "cuisine": "American", "name": "Bronx Grill", "restaurant_id": "40369601" }
{ "borough": "Bronx", "cuisine": "American", "name": "P & K'S Grill", "restaurant_id": "40369895" }
{ "borough": "Bronx", "cuisine": "American", "name": "John Mulligan'S Fireside Pub", "restaurant_id": "40370150" }
{ "borough": "Bronx", "cuisine": "American", "name": "Quality Cafe & Restaurant", "restaurant_id": "40374259" }
{ "borough": "Bronx", "cuisine": "American", "name": "Riverdale Diner", "restaurant_id": "40380253" }
{ "borough": "Bronx", "cuisine": "American", "name": "Castlehill Diner", "restaurant_id": "40382517" }
{ "borough": "Bronx", "cuisine": "American", "name": "Short Stop Restaurant", "restaurant_id": "40383819" }
Type "it" for more
```

18. 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.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({'$or': [{'borough': 'Staten Island'}, {'borough': 'Bronx or Brooklyn'}, {'borough': 'Queens'}]}, {'_id:0, restaurant_id:1, name:1, borough:1, cuisine:1'})
{ "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": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }
{ "borough": "Queens", "cuisine": "Delicatessen", "name": "Sal'S Deli", "restaurant_id": "40361618" }
{ "borough": "Queens", "cuisine": "Delicatessen", "name": "Steve Chu'S Deli & Grocery", "restaurant_id": "40361998" }
{ "borough": "Queens", "cuisine": "Chinese", "name": "Ho Mei Restaurant", "restaurant_id": "40362432" }
{ "borough": "Queens", "cuisine": "Delicatessen", "name": "Tony'S Deli", "restaurant_id": "40363333" }
{ "borough": "Queens", "cuisine": "Bagels/Pretzels", "name": "Hot Bagels", "restaurant_id": "40363565" }
{ "borough": "Staten Island", "cuisine": "Delicatessen", "name": "Bagels N Buns", "restaurant_id": "40363427" }
{ "borough": "Queens", "cuisine": "American", "name": "Snack Time Grill", "restaurant_id": "40363590" }
{ "borough": "Staten Island", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40363834" }
{ "borough": "Staten Island", "cuisine": "Delicatessen", "name": "Plaza Bagels & Deli", "restaurant_id": "40364286" }
{ "borough": "Queens", "cuisine": "American", "name": "Terminal Cafe/Yankee Clipper", "restaurant_id": "40364262" }
{ "borough": "Staten Island", "cuisine": "Delicatessen", "name": "B & M Hot Bagel & Grocery", "restaurant_id": "40364299" }
{ "borough": "Queens", "cuisine": "Jewish/Kosher", "name": "Ben-Best Deli & Restaurant", "restaurant_id": "40364529" }
{ "borough": "Queens", "cuisine": "German", "name": "Gottscheer Hall", "restaurant_id": "40364449" }
{ "borough": "Staten Island", "cuisine": "American", "name": "Great Kills Yacht Club", "restaurant_id": "40364610" }
{ "borough": "Queens", "cuisine": "Pizza/Italian", "name": "New Park Pizzeria & Restaurant", "restaurant_id": "40364744" }
{ "borough": "Queens", "cuisine": "American", "name": "Douglaston Club", "restaurant_id": "40364858" }
Type "it" for more
```

19. 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.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find( {borough: { $nin: ["Staten Island","Queens","Bronx","Brooklyn"] } }, { _id:0, restaurant_id:1, name:1, borough:1, cuisine:1 })
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "borough" : "Manhattan", "cuisine" : "Delicatessen", "name" : "Bully'S Deli", "restaurant_id" : "40361708" }
{ "borough" : "Manhattan", "cuisine" : "Chicken", "name" : "Harriet'S Kitchen", "restaurant_id" : "40362098" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "P & S Deli Grocery", "restaurant_id" : "40362264" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Angelika Film Center", "restaurant_id" : "40362274" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Downtown Deli", "restaurant_id" : "40363021" }
{ "borough" : "Manhattan", "cuisine" : "Bakery", "name" : "Olive'S", "restaurant_id" : "40363151" }
{ "borough" : "Manhattan", "cuisine" : "Turkish", "name" : "The Country Cafe", "restaurant_id" : "40362715" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Cafe Metro", "restaurant_id" : "40363298" }
{ "borough" : "Manhattan", "cuisine" : "Sandwiches/Salads/Mixed Buffet", "name" : "Lexler Deli", "restaurant_id" : "40363426" }
{ "borough" : "Manhattan", "cuisine" : "Continental", "name" : "Lorenzo & Maria'S", "restaurant_id" : "40363630" }
{ "borough" : "Manhattan", "cuisine" : "Pizza", "name" : "Domino'S Pizza", "restaurant_id" : "40363644" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Berkely", "restaurant_id" : "40363685" }
{ "borough" : "Manhattan", "cuisine" : "Pizza", "name" : "Domino'S Pizza", "restaurant_id" : "40363945" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Spoon Bread Catering", "restaurant_id" : "40364179" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "21 club", "restaurant_id" : "40364362" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Palm Restaurant", "restaurant_id" : "40364355" }
{ "borough" : "Manhattan", "cuisine" : "Italian", "name" : "Isle Of Capri Resturant", "restaurant_id" : "40364373" }
Type "it" for more

```

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

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find( {grades.score: { $lte: 10 } }, { _id:0, restaurant_id:1, name:1, borough:1, cuisine:1 })
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "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" : "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" : "Brooklyn", "cuisine" : "American", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "borough" : "Brooklyn", "cuisine" : "American", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "borough" : "Manhattan", "cuisine" : "American", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "borough" : "Brooklyn", "cuisine" : "American", "name" : "The Movable Feast", "restaurant_id" : "40361606" }
{ "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Sal'S Deli", "restaurant_id" : "40361618" }
Type "it" for more

```

21. To find the restaurant Id, name, borough and cuisine for those restaurants which prepared dishes except 'American' and 'Chinese' or the restaurant's name begins with the letter 'Wil'.

```

C:\Windows\System32\cmd.exe - mongo
> db.addresses.find( { $or: [{ cuisine: { $in: ["American", "Chinese"] }, { name: /^Wil.*/ } }, { _id:0, restaurant_id:1, name:1, borough:1, cuisine:1 })
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Iov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356731" }
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Sal'S Deli", "restaurant_id" : "40361618" }
{ "borough" : "Manhattan", "cuisine" : "Delicatessen", "name" : "Bully'S Deli", "restaurant_id" : "40361708" }
{ "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Steve Chu'S Deli & Grocery", "restaurant_id" : "40361998" }
{ "borough" : "Manhattan", "cuisine" : "Chicken", "name" : "Harriet'S Kitchen", "restaurant_id" : "40362098" }
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "White Castle", "restaurant_id" : "40362344" }
{ "borough" : "Brooklyn", "cuisine" : "Caribbean", "name" : "Shashemene Int'L Restaura", "restaurant_id" : "40362869" }
{ "borough" : "Bronx", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40363093" }
{ "borough" : "Brooklyn", "cuisine" : "Donuts", "name" : "Dunkin' Donuts", "restaurant_id" : "40363098" }
{ "borough" : "Manhattan", "cuisine" : "Bakery", "name" : "Olive'S", "restaurant_id" : "40363151" }
{ "borough" : "Manhattan", "cuisine" : "Turkish", "name" : "The Country Cafe", "restaurant_id" : "40362715" }
Type "it" for more

```

22. 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.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"grades" : {$elemMatch: {"date": ISODate("2014-08-11T00:00:00Z"), "grade": "A", "score": 11}}, {_id:0, restaurant_id:1, name:1, grades:1})
{ "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("2011-09-13T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Don Filippo Restaurant", "restaurant_id" : "40372417" }
```

23. 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".

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({'$and': [{"grades.1.grade": "A"}, {"grades.1.score": 9}, {"grades.1.date": ISODate("2014-08-11T00:00:00Z")}]}).pretty()
{
  "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. To find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of the coord array contains a value which is more than 42 and upto 52.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({'$and': [{"address.coord.1": {$gt: 42}}, {"address.coord.1": {$lte: 52}}]}).pretty()
{ "address" : { "building" : "47", "coord" : [ -78.877224, 42.89546199999999 ], "street" : "Broadway @ Trinity Pl", "zipcode" : "10006" }, "name" : "T.G.I. Friday'S", "restaurant_id" : "40387990" }
{ "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664 ], "street" : "Pennplaza E, Penn Sta", "zipcode" : "10001" }, "name" : "T.G.I. Fridays", "restaurant_id" : "40388936" }
{ "address" : { "building" : "3000", "coord" : [ -87.86567699999999, 42.61150920000001 ], "street" : "47 Avenue", "zipcode" : "11101" }, "name" : "Di Luvio'S Deli", "restaurant_id" : "40402284" }
{ "address" : { "building" : "21972190", "coord" : [ -78.589606, 42.8912372 ], "street" : "Broadway", "zipcode" : "10024" }, "name" : "La Caridad 78", "restaurant_id" : "40568285" }
{ "address" : { "building" : "7981", "coord" : [ -84.9751215, 45.4713351 ], "street" : "Hoyt Street", "zipcode" : "11201" }, "name" : "Bijan'S", "restaurant_id" : "40876618" }
{ "address" : { "building" : "0", "coord" : [ -88.0778799, 42.4154769 ], "street" : "& Grand Central", "zipcode" : "10017" }, "name" : "Hyatt, Ny Central/Room Service", "restaurant_id" : "40879243" }
{ "address" : { "building" : "60", "coord" : [ -111.9975205, 42.0970258 ], "street" : "West Side Highway", "zipcode" : "10006" }, "name" : "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id" : "40882356" }
```

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

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({}, {_id:0, name:1}).sort( {name: 1})
{ "name" : "(Lewis Drug Store) Locanda Vini E Olii" }
{ "name" : "1 East 66Th Street Kitchen" }
{ "name" : "101 Deli" }
{ "name" : "101 Restaurant And Bar" }
{ "name" : "1020 Bar" }
{ "name" : "104-01 Foster Avenue Coffee Shop(Ups)" }
{ "name" : "10Th Avenue Pizza & Cafe" }
{ "name" : "111 Restaurant" }
{ "name" : "15 East Restaurant" }
{ "name" : "200 Fifth Avenue Restaurant & Sports Bar" }
{ "name" : "21 Club" }
{ "name" : "2A" }
{ "name" : "3 Deli & Grill" }
{ "name" : "3 Guys" }
{ "name" : "3 Guys Resturant" }
{ "name" : "42Nd Street Pizza Diner" }
{ "name" : "44 & X Hell'S Kitchen" }
{ "name" : "44 Sw Ristorante & Bar" }
{ "name" : "5 Burro Cafe" }
{ "name" : "525 Lex Restaurant & Bar" }

Type "it" for more
```

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

```
G:\Windows\System32\cmd.exe - mongo
> db.addresses.find({}, {_id:0, name:1}).sort( {name: -1})
{ "name" : "Zum Stammtisch" }
{ "name" : "Zum Schneider" }
{ "name" : "Zorba'S" }
{ "name" : "Zebu Grill" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bakery" }
{ "name" : "Zaro'S Bakery" }
{ "name" : "Zafi'S Luncheonette" }
{ "name" : "Yvonne Yvonne Restaurant" }
{ "name" : "Yura & Company On Madison" }
{ "name" : "Yummy Kitchen" }
{ "name" : "Your Bakery" }
{ "name" : "Yonah Shimmels Knishes" }
{ "name" : "Yolanda Pizzeria Restaurant" }
{ "name" : "Yip'S" }
{ "name" : "Yen Yen Restaurant" }
Type "it" for more
```

27. To arrange the name of the cuisine in ascending order and for that same cuisine borough should be in descending order.

[illegible]

28. To know whether all the addresses contain the street or not.

With Street:

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"address.street": {$regex: /Street/}})
{ "_id" : ObjectId("60a71089a048c975f515cd8e"), "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("60a71089a048c975f515cd93"), "address" : { "building" : "522", "coord" : [ -73.95171, 40.767461 ], "street" : "East 74 Street", "zipcode" : "10021", "borough" : "Manhattan", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-09-02T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-12-19T00:00:00Z"), "grade" : "B", "score" : 16 }, { "date" : ISODate("2013-05-28T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-12-07T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-03-29T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-04-05T00:00:00Z"), "grade" : "A", "score" : 7 } ], "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "_id" : ObjectId("60a71089a048c975f515cd95"), "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("60a71089a048c975f515cd99"), "address" : { "building" : "3406", "coord" : [ -73.94024739999999, 40.7623288 ], "street" : "10 Street", "zipcode" : "11106", "borough" : "Queens", "cuisine" : "Delicatessen", "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("60a71089a048c975f515cd9c"), "address" : { "building" : "18", "coord" : [ -73.996984, 40.72589 ], "street" : "West Houston Street", "zipcode" : "10012", "borough" : "Manhattan", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-04-03T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-04-05T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2012-03-21T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-04-27T00:00:00Z"), "grade" : "A", "score" : 5 } ], "name" : "Angelika Film Center", "restaurant_id" : "40362274" }
{ "_id" : ObjectId("60a71089a048c975f515cd9e"), "address" : { "building" : "107", "coord" : [ -74.00920839999999, 40.7132925 ], "street" : "Church Street", "zipcode" : "10007", "borough" : "Manhattan", "cuisine" : "American", "grades" : [ { "date" : ISODate("2014-07-18T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2014-02-26T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-08-26T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-02-01T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-01-17T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-10-18T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-04-05T00:00:00Z"), "grade" : "A", "score" : 7 } ], "name" : "Downtown Deli", "restaurant_id" : "40363021" }
{ "_id" : ObjectId("60a71089a048c975f515cd9f"), "address" : { "building" : "195", "coord" : [ -73.9246028, 40.6522396 ], "street" : "E
```

Not with street:

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"address.street": {$ne: {$regex: /Street/}}})
{ "_id" : ObjectId("60a71089a048c975f515cd83"), "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("60a71089a048c975f515cd84"), "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("60a71089a048c975f515cd85"), "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("60a71089a048c975f515cd86"), "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("60a71089a048c975f515cd87"), "address" : { "building" : "2206", "coord" : [ -74.1377286, 40.6119572 ], "street" : "Victory Boulevard", "zipcode" : "10314", "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("60a71089a048c975f515cd88"), "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("60a71089a048c975f515cd89"), "address" : { "building" : "1839", "coord" : [ -73.9482609, 40.6408271 ], "street" : "V
```

29. To select all documents in the restaurants collection where the coord field value is Double.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"address.coord": {$type: "double"}}, {_id:0, address:1})
{ "address" : { "building" : "469", "coord" : [ -73.961704, 40.662942 ], "street" : "Flatbush Avenue", "zipcode" : "11225" } }
{ "address" : { "building" : "1007", "coord" : [ -73.856077, 40.848447 ], "street" : "Morris Park Ave", "zipcode" : "10462" } }
{ "address" : { "building" : "97-22", "coord" : [ -73.8601152, 40.7311739 ], "street" : "63 Road", "zipcode" : "11374" } }
{ "address" : { "building" : "8825", "coord" : [ -73.8803827, 40.7643124 ], "street" : "Astoria Boulevard", "zipcode" : "11369" } }
{ "address" : { "building" : "2206", "coord" : [ -74.1377286, 40.6119572 ], "street" : "Victory Boulevard", "zipcode" : "10314" } }
{ "address" : { "building" : "7114", "coord" : [ -73.9068506, 40.6199034 ], "street" : "Avenue U", "zipcode" : "11234" } }
{ "address" : { "building" : "1839", "coord" : [ -73.9482609, 40.6408271 ], "street" : "Nostrand Avenue", "zipcode" : "11226" } }
{ "address" : { "building" : "2300", "coord" : [ -73.8786113, 40.8502883 ], "street" : "Southern Boulevard", "zipcode" : "10460" } }
{ "address" : { "building" : "7715", "coord" : [ -73.9973325, 40.61174889999999 ], "street" : "18 Avenue", "zipcode" : "11214" } }
{ "address" : { "building" : "1269", "coord" : [ -73.871194, 40.6730975 ], "street" : "Sutter Avenue", "zipcode" : "11208" } }
{ "address" : { "building" : "2780", "coord" : [ -73.98241999999999, 40.579505 ], "street" : "Stillwell Avenue", "zipcode" : "11224" } }
{ "address" : { "building" : "351", "coord" : [ -73.98513559999999, 40.7676919 ], "street" : "West 57 Street", "zipcode" : "10019" } }
{ "address" : { "building" : "6409", "coord" : [ -74.00528899999999, 40.628886 ], "street" : "11 Avenue", "zipcode" : "11219" } }
{ "address" : { "building" : "705", "coord" : [ -73.9653967, 40.6064339 ], "street" : "Kings Highway", "zipcode" : "11223" } }
{ "address" : { "building" : "265-15", "coord" : [ -73.7032601, 40.7386417 ], "street" : "Hillside Avenue", "zipcode" : "11004" } }
{ "address" : { "building" : "203", "coord" : [ -73.97822040000001, 40.6435254 ], "street" : "Church Avenue", "zipcode" : "11218" } }
{ "address" : { "building" : "522", "coord" : [ -73.95171, 40.767461 ], "street" : "East 74 Street", "zipcode" : "10021" } }
{ "address" : { "building" : "6909", "coord" : [ -74.0259567, 40.6353674 ], "street" : "3 Avenue", "zipcode" : "11209" } }
{ "address" : { "building" : "1", "coord" : [ -73.96926099999999, 40.7685235 ], "street" : "East 66 Street", "zipcode" : "10065" } }
{ "address" : { "building" : "284", "coord" : [ -73.9829239, 40.6580753 ], "street" : "Prospect Park West", "zipcode" : "11215" } }
Type "it" for more
```

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

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({"grades": {$elemMatch: {"score": {$mod: [7,0]}}},{_id:0, restaurant_id:1, name:1, grades:1})
{ "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" }
{ "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" }
{ "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 Kitchen", "restaurant_id" : "40358429" }
{ "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" }
{ "grades" : [ { "date" : ISODate("2014-11-10T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("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" : "Seveda Foods", "restaurant_id" : "40360045" }
{ "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" }
{ "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" }
{ "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" }
{ "grades" : [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-03-04T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-07-18T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-01-09T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-04-10T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-11-15T00:00:00Z"), "grade" : "A", "score" : 7 } ], "name" : "Harriet'S Kitchen", "restaurant_id" : "40362098" }
{ "grades" : [ { "date" : ISODate("2014-03-18T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-03-18T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2012-03-18T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2011-03-18T00:00:00Z"), "grade" : "A", "score" : 8 } ], "name" : "Harriet'S Kitchen", "restaurant_id" : "40362098" }
```

31. To find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contain 'mon' as three letters somewhere in its name.

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({name: {$regex: /mon/}}, {_id:0, name:1, borough:1, "address.coord":1, cuisine:1})
{ "address" : { "coord" : [ -73.98306099999999, 40.7441419 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Desmond'S Tavern" }
{ "address" : { "coord" : [ -73.8221418, 40.7272376 ] }, "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Shimons Kosher P izza" }
{ "address" : { "coord" : [ -74.10465599999999, 40.58834 ] }, "borough" : "Staten Island", "cuisine" : "American ", "name" : "Richmond County Country Club" }
{ "address" : { "coord" : [ -73.9812843, 40.5947365 ] }, "borough" : "Brooklyn", "cuisine" : "Pizza/Italian", "name" : "Lb Spumoni Gar dens" }
{ "address" : { "coord" : [ -73.951199, 40.7166026 ] }, "borough" : "Brooklyn", "cuisine" : "Italian", "name" : "Bamonte'S Restaurant" }
{ "address" : { "coord" : [ -73.924072, 40.76108900000001 ] }, "borough" : "Queens", "cuisine" : "Greek", "name" : "Omonia Cafe" }
{ "address" : { "coord" : [ -73.9901605, 40.7526176 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Delmonico'S Kitch en" }
{ "address" : { "coord" : [ -73.9707505, 40.7635651 ] }, "borough" : "Manhattan", "cuisine" : "Delicatessen", "name" : "Delmonico Gour met" }
{ "address" : { "coord" : [ -73.9760637, 40.7508686 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Delmonico Gourmet " }
{ "address" : { "coord" : [ -73.97198209999999, 40.764464 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Harmonie Cl ub" }
{ "address" : { "coord" : [ -73.79571990000001, 40.7095637 ] }, "borough" : "Queens", "cuisine" : "Bakery", "name" : "Ramona'S Bakery" }
{ "address" : { "coord" : [ -73.98463480000001, 40.7630755 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Neil Simon Theatre" }
{ "address" : { "coord" : [ -74.028486, 40.630438 ] }, "borough" : "Brooklyn", "cuisine" : "Mediterranean", "name" : "Omonia Cafe" }
{ "address" : { "coord" : [ -73.9849976, 40.7276766 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Simone Bar Cafe" }
{ "address" : { "coord" : [ -74.01032339999999, 40.7050156 ] }, "borough" : "Manhattan", "cuisine" : "Italian", "name" : "Delmonicos" }
{ "address" : { "coord" : [ -73.8706606, 40.7342757 ] }, "borough" : "Queens", "cuisine" : "American ", "name" : "Cinnabon World Famou s Cinnamon Rolls" }
{ "address" : { "coord" : [ -73.9640299, 40.807001 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Ferris Booth Commo ns - Alfred Lerner Hall" }
```

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

```
C:\Windows\System32\cmd.exe - mongo
> db.addresses.find({name: {$regex: /^Mad.*}/}}, {_id:0, name:1, borough:1, "address.coord":1, cuisine:1})
{ "address" : { "coord" : [ -73.9860597, 40.7431194 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Madison Square" }
{ "address" : { "coord" : [ -73.98302199999999, 40.742313 ] }, "borough" : "Manhattan", "cuisine" : "Indian", "name" : "Madras Mahal" }
{ "address" : { "coord" : [ -74.000002, 40.72735 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Madame X" }
{ "address" : { "coord" : [ -73.98171959999999, 40.7499406 ] }, "borough" : "Manhattan", "cuisine" : "French", "name" : "Madison Bistr o" }
{ "address" : { "coord" : [ -73.9717845, 40.6897199 ] }, "borough" : "Brooklyn", "cuisine" : "African", "name" : "Madiba" }
{ "address" : { "coord" : [ -73.9040753, 40.9069011 ] }, "borough" : "Bronx", "cuisine" : "Italian", "name" : "Madison'S" }
{ "address" : { "coord" : [ -73.9886598, 40.7565811 ] }, "borough" : "Manhattan", "cuisine" : "Hotdogs", "name" : "Madame Tussaud'S" }
{ "address" : { "coord" : [ -73.95623719999999, 40.7761697 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Mad River Bar & Grille" }
```