

ASSIGNMENT 3 S.yuvan karthick

MongoDB – Complex Queries

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

mongoimport --db restaurants --collection addresses --file restaurants.json

5. Run mongo shell command
6. show databases
7. use restaurants
8. db.addresses.find() should print entire json data
9. Then start working on the following exercises and submit your queries as the answers to the questions

```
> use restaurants
switched to db restaurants
> db.createCollection('addresses')
{
  "ok" : 0,
```

```
> show dbs
admin          0.000GB
config         0.000GB
local          0.000GB
mongo_practice 0.000GB
population     0.000GB
restaurants    0.000GB
users          0.000GB
>
```

MongoDB Compass - cluster0.p0gtn.mongodb.net/restaurants.addresses

Connect View Collection Help

Local

4 DBS 1 COLLECTIONS

☆ FAVORITE

HOSTS

cluster0-shard-00-00.p0gt...

cluster0-shard-00-01.p0gt...

cluster0-shard-00-02.p0gt...

CLUSTER

Replica Set (atlas-ceb36x...

3 Nodes

EDITION

MongoDB 4.12 Enterprise

Filter your data

admin

config

local

restaurants

addresses

restaurants.addresses Documents

DOCUMENTS 3.8k STORAGE SIZE 671.7KB AVG. SIZE 470B INDEXES 1 TOTAL SIZE 110.6KB AVG. SIZE 110.6KB

Documents Aggregations Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

OPTIONS FIND RESET ↺ ...

ADD DATA VIEW

Displaying documents 1 - 20 of 3772

REFRESH

```

{
  "_id": ObjectId("6205df4c5c79518e25ecc1"),
  "address": Object,
  "borough": "Bronx",
  "cuisine": "Bakery",
  "grades": Array,
  "name": "Morris Park Bake Shop",
  "restaurant_id": "30075445"
}

```

{
 "_id": ObjectId("6205df4c5c79518e25ecc2"),
 "address": Object,
 "borough": "Brooklyn",
 "cuisine": "Hamburgers",
 "grades": Array,
 "name": "Wendy's",
 "restaurant_id": "30112340"
 }

```

{
  "_id": ObjectId("6205df4c5c79518e25ecc3"),
  "address": Object,
  "borough": "Manhattan",
  "cuisine": "Irish",
  "grades": Array
}

```

Exercise Questions

1. Write a MongoDB query to display all the documents in the collection restaurants.
2. Write a MongoDB query to display the fields restaurant_id, name, borough and cuisine for all the documents in the collection restaurant.
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.
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()
{ "_id": ObjectId("6205492c8aafcf9467100c"), "address": { "building": "1007", "coord": [ -73.858077, 40.648447 ], "street": "Morris Park Ave", "zipcode": "10462", "borough": "Bronx", "cuisine": "Bakery", "grades": [ { "date": ISODate("2014-03-09T00:00:00Z"), "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("6205492c8aafcf9467100d"), "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("2012-05-06T00:00:00Z"), "grade": "A", "score": 12 } ], "name": "Mendy's", "restaurant_id": "30112340" }
{ "_id": ObjectId("6205492c8aafcf9467100e"), "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": "D.J. Reynolds Pub And Restaurant", "restaurant_id": "30191841" }
{ "_id": ObjectId("6205492c8aafcf9467100f"), "address": { "building": "2780", "coord": [ -73.96241999999999, 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("2012-04-11T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2011-10-12T00:00:00Z"), "grade": "A", "score": 12 } ], "name": "Riviera Caterer", "restaurant_id": "40356018" }
{ "_id": ObjectId("6205492c8aafcf94671010"), "address": { "building": "97-22", "coord": [ -73.8801152, 40.7311739 ], "street": "63 Road", "zipcode": "11374", "borough": "Queens", "cuisine": "Jewish/Kosher", "grades": [ { "date": ISODate("2014-11-24T00:00:00Z"), "grade": "A", "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 }, { "date": ISODate("2011-06-02T00:00:00Z"), "grade": "A", "score": 13 } ], "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }
{ "_id": ObjectId("6205492c8aafcf94671011"), "address": { "building": "8823", "coord": [ -73.8803827, 40.7641124 ], "street": "Astoria Boulevard", "zipcode": "11369", "borough": "Queens", "cuisine": "American", "grades": [ { "date": ISODate("2014-11-15T00:00:00Z"), "grade": "A", "score": 38 }, { "date": ISODate("2014-06-02T00:00:00Z"), "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 }, { "date": ISODate("2011-06-02T00:00:00Z"), "grade": "A", "score": 13 } ], "name": "Brunos On The Boulevard", "restaurant_id": "40356151" }
{ "_id": ObjectId("6205492c8aafcf94671012"), "address": { "building": "2206", "coord": [ -74.1377286, 40.6119572 ], "street": "Victory Boulevard", "zipcode": "10314", "borough": "Staten Island", "cuisine": "Jewish/Kosher", "grades": [ { "date": ISODate("2014-10-05T00:00:00Z"), "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("2012-01-01T00:00:00Z"), "grade": "A", "score": 9 }, { "date": ISODate("2011-06-02T00:00:00Z"), "grade": "A", "score": 9 } ], "name": "Kosher Island", "restaurant_id": "40356442" }
{ "_id": ObjectId("6205492c8aafcf94671013"), "address": { "building": "7114", "coord": [ -73.908596, 40.6190844 ], "street": "Avenue U", "zipcode": "11234", "borough": "Brooklyn", "cuisine": "Deli/Catessen", "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("2011-0-14T00:00:00Z"), "grade": "A", "score": 9 } ], "name": "Milken's Fine Food", "restaurant_id": "40356403" }
{ "_id": ObjectId("6205492c8aafcf94671014"), "address": { "building": "6409", "coord": [ -74.06528899999999, 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("2013-07-30T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2013-02-13T00:00:00Z"), "grade": "A", "score": 11 }, { "date": ISODate("2012-06-16T00:00:00Z"), "grade": "A", "score": 2 }, { "date": ISODate("2011-08-17T00:00:00Z"), "grade": "A", "score": 11 } ], "name": "Regina Caterers", "restaurant_id": "40356449" }
{ "_id": ObjectId("6205492c8aafcf94671015"), "address": { "building": "1839", "coord": [ -73.9482699, 40.648271 ], "street": "Nostrand Avenue", "zipcode": "11226", "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "grades": [ { "date": ISODate("2014-07-14T00:00:00Z"), "grade": "A", "score": 12 }, { "date": ISODate("2013-07-10T00:00:00Z"), "grade": "A", "score": 8 }, { "date": ISODate("2012-07-11T00:00:00Z"), "grade": "A", "score": 5 }, { "date": ISODate("2012-02-23T00:00:00Z"), "grade": "A", "score": 8 } ], "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{ "_id": ObjectId("6205492c8aafcf94671016"), "address": { "building": "2300", "coord": [ -73.8796113, 40.8502893 ], "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 }, { "date": ISODate("2011-06-02T00:00:00Z"), "grade": "A", "score": 3 } ], "name": "Wild Asia", "restaurant_id": "40357217" }
{ "_id": ObjectId("6205492c8aafcf94671017"), "address": { "building": "7715", "coord": [ -73.9973325, 40.61174899999999 ], "street": "18 Avenue", "zipcode": "11214", "borough": "Brooklyn", "cuisine": "American", "grades": [ { "date": ISODate("2014-04-16T00:00:00Z"), "grade": "A", "score": 5 }, { "date": ISODate("2013-04-23T00:00:00Z"), "grade": "A", "score": 2 }, { "date": ISODate("2012-04-24T00:00:00Z"), "grade": "A", "score": 5 }, { "date": ISODate("2011-12-16T00:00:00Z"), "grade": "A", "score": 2 }, { "date": ISODate("2011-06-02T00:00:00Z"), "grade": "A", "score": 2 } ], "name": "C & C Catering Service", "restaurant_id": "40357437" }
{ "_id": ObjectId("6205492c8aafcf94671018"), "address": { "building": "1269", "coord": [ -73.871194, 40.6730975 ], "street": "Sutter Avenue", "zipcode": "11208", "borough": "Brooklyn", "cuisine": "Chinese", "grades": [ { "date": ISODate("2014-09-16T00:00:00Z"), "grade": "B", "score": 21 }, { "date": ISODate("2013-06-28T00:00:00Z"), "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" }
```

```

db.addresses.find({},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1})
{"_id": ObjectId("6205492c0aaafcf9467100c"), "borough": "Bronx", "cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant_id": "30075445" }
{"_id": ObjectId("6205492c0aaafcf9467100d"), "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy'S", "restaurant_id": "30112340" }
{"_id": ObjectId("6205492c0aaafcf9467100e"), "borough": "Manhattan", "cuisine": "Irish", "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841" }
{"_id": ObjectId("6205492c0aaafcf9467100f"), "borough": "Brooklyn", "cuisine": "American ", "name": "Riviera Caterer", "restaurant_id": "40356018" }
{"_id": ObjectId("6205492c0aaafcf94671010"), "borough": "Queens", "cuisine": "Jewish/Kosher", "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }
{"_id": ObjectId("6205492c0aaafcf94671011"), "borough": "Queens", "cuisine": "American ", "name": "Brunos On The Boulevard", "restaurant_id": "40356151" }
{"_id": ObjectId("6205492c0aaafcf94671012"), "borough": "Staten Island", "cuisine": "Jewish/Kosher", "name": "Kosher Island", "restaurant_id": "40356442" }
{"_id": ObjectId("6205492c0aaafcf94671013"), "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Wilken'S Fine Food", "restaurant_id": "40356483" }
{"_id": ObjectId("6205492c0aaafcf94671014"), "borough": "Brooklyn", "cuisine": "American ", "name": "Regina Caterers", "restaurant_id": "40356649" }
{"_id": ObjectId("6205492c0aaafcf94671015"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{"_id": ObjectId("6205492c0aaafcf94671016"), "borough": "Bronx", "cuisine": "American ", "name": "Wild Asia", "restaurant_id": "40357217" }
{"_id": ObjectId("6205492c0aaafcf94671017"), "borough": "Brooklyn", "cuisine": "American ", "name": "C & C Catering Service", "restaurant_id": "40357437" }
{"_id": ObjectId("6205492c0aaafcf94671018"), "borough": "Brooklyn", "cuisine": "Chinese", "name": "May May Kitchen", "restaurant_id": "40358429" }
{"_id": ObjectId("6205492c0aaafcf94671019"), "borough": "Manhattan", "cuisine": "American ", "name": "1 East 66Th Street Kitchen", "restaurant_id": "40359480" }
{"_id": ObjectId("6205492c0aaafcf9467101a"), "borough": "Brooklyn", "cuisine": "Jewish/Kosher", "name": "Seuda Foods", "restaurant_id": "40360045" }
{"_id": ObjectId("6205492c0aaafcf9467101b"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360076" }
{"_id": ObjectId("6205492c0aaafcf9467101c"), "borough": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }
{"_id": ObjectId("6205492c0aaafcf9467101d"), "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }
{"_id": ObjectId("6205492c0aaafcf9467101e"), "borough": "Manhattan", "cuisine": "American ", "name": "Glorious Food", "restaurant_id": "40361521" }
{"_id": ObjectId("6205492c0aaafcf9467101f"), "borough": "Brooklyn", "cuisine": "American ", "name": "The Movable Feast", "restaurant_id": "40361606" }
type "it" for more

```

```

> db.addresses.find({},{"restaurant_id":1,"name":1,"borough":1,"cuisine":1,"_id":0})
{"borough": "Bronx", "cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant_id": "30075445" }
{"borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy'S", "restaurant_id": "30112340" }
{"borough": "Manhattan", "cuisine": "Irish", "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841" }
{"borough": "Brooklyn", "cuisine": "American ", "name": "Riviera Caterer", "restaurant_id": "40356018" }
{"borough": "Queens", "cuisine": "Jewish/Kosher", "name": "Tov Kosher Kitchen", "restaurant_id": "40356068" }
{"borough": "Queens", "cuisine": "American ", "name": "Brunos On The Boulevard", "restaurant_id": "40356151" }
{"borough": "Staten Island", "cuisine": "Jewish/Kosher", "name": "Kosher Island", "restaurant_id": "40356442" }
{"borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Wilken'S Fine Food", "restaurant_id": "40356483" }
{"borough": "Brooklyn", "cuisine": "American ", "name": "Regina Caterers", "restaurant_id": "40356649" }
{"borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{"borough": "Bronx", "cuisine": "American ", "name": "Wild Asia", "restaurant_id": "40357217" }
{"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

```

```

> db.addresses.find({},{"restaurant_id":1,"name":1,"borough":1,"address.zipcode":1,"_id":0})
{"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.
6. Write a MongoDB query to display all the restaurant which is in the borough Bronx.
7. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.
8. Write a MongoDB query to find the restaurants who achieved a score more than 90.
9. Write a MongoDB query to find the restaurants that achieved a score, more than 80 but less than 100.
10. Write a MongoDB query to find the restaurants which locate in latitude value less than -95.754168.

```
db.addresses.find({"borough": "Bronx"}).limit(5)
{"_id": ObjectId("6205492c0aaafcf9467108c"), "address": {"building": "1807", "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 Bakery", "restaurant_id": "30075445" }
{"_id": ObjectId("6205492c0aaafcf94671016"), "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" }
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{"_id": ObjectId("6205492c0aaafcf9467165d"), "address": {"building": "3707", "coord": [-101.8945214, 33.5197474], "street": "82 Street", "zipcode": "11372"}, "borough": "Queens", "cuisine": "American", "grades": [{"date": ISODate("2014-06-04T00:00:00Z"), "grade": "A", "score": 12}, {"date": ISODate("2013-11-07T00:00:00Z"), "grade": "B", "score": 19}, {"date": ISODate("2013-05-17T00:00:00Z"), "grade": "A", "score": 11}, {"date": ISODate("2012-08-29T00:00:00Z"), "grade": "A", "score": 11}, {"date": ISODate("2012-04-03T00:00:00Z"), "grade": "A", "score": 12}, {"date": ISODate("2011-11-16T00:00:00Z"), "grade": "A", "score": 7}], "name": "Burger King", "restaurant_id": "40534067"}
{"_id": ObjectId("6205492c0aaafcf9467196f"), "address": {"building": "15259", "coord": [-119.6368672, 36.2504996], "street": "10 Avenue", "zipcode": "11357"}, "borough": "Queens", "cuisine": "Italian", "grades": [{"date": ISODate("2014-09-04T00:00:00Z"), "grade": "A", "score": 11}, {"date": ISODate("2014-03-26T00:00:00Z"), "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": "Cascario'S", "restaurant_id": "40668881"}
{"_id": ObjectId("6205492c0aaafcf94671a65"), "address": {"building": "60", "coord": [-111.9975205, 42.0970258], "street": "West Side Highway", "zipcode": "10006"}, "borough": "Manhattan", "cuisine": "Japanese", "grades": [{"date": ISODate("2014-03-20T00:00:00Z"), "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": 2}], "name": "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id": "40882356"}
```

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.
14. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.
15. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'ces' as last three letters for its name.
16. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Reg' as three letters somewhere in its name.
17. Write a MongoDB query to find the restaurants which belong to the borough Bronx and prepared either American or Chinese dish.

```
> db.addresses.find({'$and': [{'cuisine': {'$ne': 'American'}}, {'grades.score': {'$gt': 70}}, {'address.coord': {'$lt': -65.754168}}])
{ "_id" : ObjectId("6205492c0aaaafc1f9467120b"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "street" : "East
ndian", "grades" : [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2014-01-14T00:00:00Z"),
, "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "grade" : "P", "score" : 2 }, { "date" : ISODate("2012-10-01T
00:00:00Z"), "grade" : "C", "score" : 92 }, { "date" : ISODate("2011-11-03T00:00:00Z"), "grade" : "C", "score" : 41 } ], "name" : "Gandhi
{ "_id" : ObjectId("6205492c0aaaafc1f9467136e"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.7457939 ], "street" : "Madiso
izza/Italian", "grades" : [ { "date" : ISODate("2014-12-24T00:00:00Z"), "grade" : "Z", "score" : 31 }, { "date" : ISODate("2014-06-17T00:0
:00:00Z"), "grade" : "C", "score" : 32 }, { "date" : ISODate("2013-05-22T00:00:00Z"), "grade" : "B", "score" : 21 }, { "date" : ISODate("2
apoli", "restaurant_id" : "40393488" }
{ "_id" : ObjectId("6205492c0aaaafc1f94671379"), "address" : { "building" : "101", "coord" : [ -73.9243061, 40.8276297 ], "street" : "East
in (Cuban, Dominican, Puerto Rican, South & Central American)", "grades" : [ { "date" : ISODate("2014-04-10T00:00:00Z"), "grade" : "A", "s
"score" : 6 }, { "date" : ISODate("2013-04-11T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2012-10-25T00:00:00Z"), "gra
grade" : "P", "score" : 12 }, { "date" : ISODate("2012-05-25T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2011-09-14T00
00:00:00Z"), "grade" : "C", "score" : 76 } ], "name" : "El Molino Rojo Restaurant", "restaurant_id" : "40393688" }
{ "_id" : ObjectId("6205492c0aaaafc1f946714c9"), "address" : { "building" : "289", "coord" : [ -73.94610279999999, 40.7137587 ], "street" :
ine" : "Bakery", "grades" : [ { "date" : ISODate("2014-03-19T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-10-10T00
00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-09-11T00:00:00Z"), "grade" : "B", "score" : 18 }, { "date" : ISODate(
("2011-09-27T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2011-05-03T00:00:00Z"), "grade" : "C", "score" : 77 } ], "name
{ "_id" : ObjectId("6205492c0aaaafc1f94671af3"), "address" : { "building" : "231", "coord" : [ -73.9772294, 40.7527262 ], "street" : "Grand
ne" : "Italian", "grades" : [ { "date" : ISODate("2015-01-07T00:00:00Z"), "grade" : "Z", "score" : 20 }, { "date" : ISODate("2014-07-03T00
00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-05-17T00:00:00Z"), "grade" : "C", "score" : 76 }, { "date" : ISODate(
oots Grand Central", "restaurant_id" : "40725591" }
```

```
db.addresses.find({'cuisine': {'$ne': 'American'}, 'grades.score': {'$gt': 70}, 'address.coord': {'$lt': -65.754168}})
{ "_id" : ObjectId("6205492c0aaaafc1f9467120b"), "address" : { "building" : "345", "coord" : [ -73.9864626, 40.7266739 ], "
dian", "grades" : [ { "date" : ISODate("2014-09-15T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2014-01
"grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "grade" : "P", "score" : 2 }, { "date" : ISO
00:00:00Z"), "grade" : "C", "score" : 92 }, { "date" : ISODate("2011-11-03T00:00:00Z"), "grade" : "C", "score" : 41 } ],
_id" : ObjectId("6205492c0aaaafc1f9467136e"), "address" : { "building" : "130", "coord" : [ -73.984758, 40.7457939 ], "s
zza/Italian", "grades" : [ { "date" : ISODate("2014-12-24T00:00:00Z"), "grade" : "Z", "score" : 31 }, { "date" : ISODate(
00:00:00Z"), "grade" : "C", "score" : 32 }, { "date" : ISODate("2013-05-22T00:00:00Z"), "grade" : "B", "score" : 21 }, { "da
```

```
> db.addresses.find( {
...     "cuisine" : {$ne : "American "},
...     "grades.grade" : "A",
...     "borough" : {$ne : "Brooklyn"}
... }
... ).sort({"cuisine":-1})
{ "_id" : ObjectId("6205492c0aaafc1f94671718"), "address" : { "building" : "89", "coord" : [ -
etnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-08-21T00:00:00Z"), "grade"
("2013-04-11T00:00:00Z"), "grade" : "C", "score" : 3 }, { "date" : ISODate("2012-10-17T00:00:0
e" : "Thai Son", "restaurant_id" : "40559606" }
{ "_id" : ObjectId("6205492c0aaafc1f946717d1"), "address" : { "building" : "8278", "coord" : [
ietnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-06-12T00:00:00Z"), "grade
e("2012-12-26T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-12-03T00:00
ame" : "Pho Bac Vietnamese Seafood Cuisine", "restaurant_id" : "40578058" }
{ "_id" : ObjectId("6205492c0aaafc1f94671bba"), "address" : { "building" : "148", "coord" : [
etnamese/Cambodian/Malaysia", "grades" : [ { "date" : ISODate("2014-10-01T00:00:00Z"), "grade
2013-11-15T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2013-03-08T00:00:00
e" : ISODate("2011-10-27T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Nha-Trang Cent
{ "_id" : ObjectId("6205492c0aaafc1f946712bc"), "address" : { "building" : "300", "coord" : [
vegetarian", "grades" : [ { "date" : ISODate("2014-02-05T00:00:00Z"), "grade" : "A", "score" :
```

```
> db.addresses.find(
... {name: /^Wil/},
... {
... "restaurant_id" : 1,
... "name":1,"borough":1,
... "cuisine" :1
... }
... )
{ "_id" : ObjectId("6205492c0aaafc1f94671013"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6205492c0aaafc1f94671016"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6205492c0aaafc1f94671e1b"), "borough" : "Bronx", "cuisine" : "Pizza", "name" : "Wilbel Pizza", "restaurant_id" : "40871979" }
}
■
```

```
> db.addresses.find(
... {name: /ces$/},
... {
... "restaurant_id" : 1,
... "name":1,"borough":1,
... "cuisine" :1
... }
... )
{ "_id" : ObjectId("6205492c0aaafc1f9467149f"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Pieces", "restaurant_id" : "40399910" }
{ "_id" : ObjectId("6205492c0aaafc1f9467155e"), "borough" : "Queens", "cuisine" : "American ", "name" : "S.M.R Restaurant Services", "restaurant_id" : "40403057" }
{ "_id" : ObjectId("6205492c0aaafc1f94671564"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Good Shepherd Services", "restaurant_id" : "40403989" }
{ "_id" : ObjectId("6205492c0aaafc1f94671a17"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "The Ice Box-Ralph'S Famous Italian Ices", "restaurant_id" : "40690899" }
{ "_id" : ObjectId("6205492c0aaafc1f94671c19"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Alices", "restaurant_id" : "40782042" }
{ "_id" : ObjectId("6205492c0aaafc1f94671e35"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Re: Sources", "restaurant_id" : "40876088" }
```

```
> db.addresses.find(
... {"name": /.Reg./},
... {
... "restaurant_id" : 1,
... "name":1,"borough":1,
... "cuisine" :1
... }
... )
{ "_id" : ObjectId("6205492c0aaafc1f94671014"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "_id" : ObjectId("6205492c0aaafc1f94671111"), "borough" : "Manhattan", "cuisine" : "Café/Coffee/Tea", "name" : "Caffe Reggio", "restaurant_id" : "40369418" }
{ "_id" : ObjectId("6205492c0aaafc1f94671220"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Regency Hotel", "restaurant_id" : "40382679" }
{ "_id" : ObjectId("6205492c0aaafc1f9467153d"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Regency Whist Club", "restaurant_id" : "40402377" }
{ "_id" : ObjectId("6205492c0aaafc1f94671620"), "borough" : "Queens", "cuisine" : "American ", "name" : "Rego Park Cafe", "restaurant_id" : "40523342" }
{ "_id" : ObjectId("6205492c0aaafc1f94671c8e"), "borough" : "Queens", "cuisine" : "Pizza", "name" : "Regina Pizza", "restaurant_id" : "40801325" }
```



```
> db.addresses.find(
-- {
--   "borough": "Bronx" ,
--   $or : [
--     { "cuisine" : "American " },
--     { "cuisine" : "Chinese" }
--   ]
-- }
-- )
{ "_id" : ObjectId("6205492c0aaafc1f94671016"), "address" : { "building" : "2300", "co
"American ", "grades" : [ { "date" : ISODate("2014-05-28T00:00:00Z"), "grade" : "A", "
:00Z"), "grade" : "A", "score" : 3 } ], "name" : "Wild Asia", "restaurant_id" : "40357
{ "_id" : ObjectId("6205492c0aaafc1f9467102f"), "address" : { "building" : "1236", "co
```

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.
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.
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.
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'.
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(
.. {"borough" :{$in :["Staten Island","Queens","Bronx","Brooklyn"]}},
.. {
..   "restaurant_id" : 1,
..   "name":1,"borough":1,
..   "cuisine" :1
.. }
.. )
{ "_id" : ObjectId("6205492c0aaafc1f9467100c"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6205492c0aaafc1f9467100d"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "_id" : ObjectId("6205492c0aaafc1f9467100f"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "_id" : ObjectId("6205492c0aaafc1f94671010"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "_id" : ObjectId("6205492c0aaafc1f94671011"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }

> db.addresses.find(
... {"borough" :{$nin :["Staten Island","Queens","Bronx","Brooklyn"]}},
... {
...   "restaurant_id" : 1,
...   "name":1,"borough":1,
...   "cuisine" :1
... }
... )
{ "_id" : ObjectId("6205492c0aaafc1f9467100e"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "
{ "_id" : ObjectId("6205492c0aaafc1f94671019"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen", "
{ "_id" : ObjectId("6205492c0aaafc1f9467101e"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Glorious Food", "restaurant_id"
```

```

> db.addresses.find(
... {"grades.score" :
... {"$not:
... {"$gt : 10}
... }
... },
... {
... "restaurant_id" : 1,
... "name":1,"borough":1,
... "cuisine" :1
... }
... )
{ "_id" : ObjectId("6205492c0aaafc1f94671017"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Cater
{ "_id" : ObjectId("6205492c0aaafc1f94671019"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66T
{ "_id" : ObjectId("6205492c0aaafc1f9467101d"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic D
{ "_id" : ObjectId("6205492c0aaafc1f94671026"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "White Cast

> db.addresses.find(
... {"$or: [
...   {name: /^Wil/},
...   {"$and": [
...     {"cuisine" : {"$ne : "American "}},
...     {"cuisine" : {"$ne : "Chinees"}}
...   ]}
... ]}
... ,{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1}
... )
{ "_id" : ObjectId("6205492c0aaafc1f9467100c"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" :
{ "_id" : ObjectId("6205492c0aaafc1f9467100d"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112
{ "_id" : ObjectId("6205492c0aaafc1f9467100e"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "resta
{ "_id" : ObjectId("6205492c0aaafc1f94671010"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_i
{ "_id" : ObjectId("6205492c0aaafc1f94671012"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant

```

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"
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..
25. Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.
26. Write a MongoDB query to arrange the name of the restaurants in descending order along with all the columns.
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.
28. Write a MongoDB query to know whether all the addresses contains the street or not.
29. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.

```
> 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("6205492c0aaafc1f9467108a"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-03-14T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-07-02T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-08-24T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Neary'S Pub", "restaurant_id" :
```

```
> 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("6205492c0aaafc1f94671637"), "grades" : [ { "date" : ISODate("2015-01-12T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-01-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-02-07T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Neary'S Pub", "restaurant_id" :
```

```
> db.addresses.find(
...     {
...         "address.coord.1": { $gt : 42, $lte : 52 }
...     },
...     {"restaurant_id" : 1,"name":1,"address":1,"coord":1}
... )
{ "_id" : ObjectId("6205492c0aaafc1f946712ae"), "address" : { "building" : "47", "coord" : [ -78.877224, 42.89546199999999 ], "street" : "Broadway", "restaurant_id" : "40387990" }, "grades" : [ { "date" : ISODate("2014-03-06T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-06-27T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Canda Vini E Olii", "restaurant_id" : "40804423" }
{ "_id" : ObjectId("6205492c0aaafc1f946712da"), "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664 ], "street" : "Pennplaza E, Penn Plaza", "restaurant_id" : "40388936" }, "grades" : [ { "date" : ISODate("2014-05-07T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2011-12-27T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "American ", "restaurant_id" : "30075445" }
{ "_id" : ObjectId("6205492c0aaafc1f94671533"), "address" : { "building" : "3000", "coord" : [ -87.86567699999999, 42.61150920000001 ], "street" : "Broadway", "restaurant_id" : "40387990" }, "grades" : [ { "date" : ISODate("2014-03-06T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-06-27T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Canda Vini E Olii", "restaurant_id" : "40804423" }
```

```
> db.addresses.find().sort({"name":1})
{ "_id" : ObjectId("6205492c0aaafc1f94671c9c"), "address" : { "building" : "129", "coord" : [ -78.877224, 42.89546199999999 ], "street" : "Broadway", "restaurant_id" : "40387990" }, "grades" : [ { "date" : ISODate("2014-03-06T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-06-27T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Canda Vini E Olii", "restaurant_id" : "40804423" }
{ "_id" : ObjectId("6205492c0aaafc1f94671019"), "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664 ], "street" : "Pennplaza E, Penn Plaza", "restaurant_id" : "40388936" }, "grades" : [ { "date" : ISODate("2014-05-07T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2011-12-27T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "American ", "restaurant_id" : "30075445" }
```

```
> db.addresses.find().sort(
...     {"cuisine":1,"borough" : -1,}
... )
{ "_id" : ObjectId("6205492c0aaafc1f946716f7"), "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664 ], "street" : "Pennplaza E, Penn Plaza", "restaurant_id" : "40388936" }, "grades" : [ { "date" : ISODate("2014-10-07T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-04-26T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "American ", "restaurant_id" : "30075445" }
```

```
> db.addresses.find(
...     {"address.street" :
...       { $exists : true }
...     }
... )
{ "_id" : ObjectId("6205492c0aaafc1f9467100c"), "address" : { "building" : "1007", "coord" : [ -78.877224, 42.89546199999999 ], "street" : "Broadway", "restaurant_id" : "40387990" }, "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Canda Vini E Olii", "restaurant_id" : "40804423" }
```

```
> db.addresses.find(
...     {"address.coord" :
...         {$type : 1}
...     }
... )
{ "_id" : ObjectId("6205492c0aaafc1f9467100c"), "address" : { "building" : "1007", "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "B", "score" : 8 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "C", "score" : 7 } ], "restaurant_id" : "30075445" }
```

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}
...   )
... )
{ "_id" : ObjectId("6205492c0aaafc1f9467100c"), "grades" : [ { "date" : ISODate("2014-03-03T00:00:00Z"), "grade" : "A"
"date" : ISODate("2013-01-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "
e" : 14 } ], "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
```

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.
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 : "mon.*", $options: "i" }
...   },
...   {
...     "name":1,
...     "borough":1,
...     "address.coord":1,
...     "cuisine" :1
...   }
... )
{ "_id" : ObjectId("6205492c0aaaafc1f946710a0"), "address" : { "coord" : [ -73.98306099999999, 40.7441419 ] }, "borough" : "Manh
{ "_id" : ObjectId("6205492c0aaaafc1f946710a9"), "address" : { "coord" : [ -73.8221418, 40.7272376 ] }, "borough" : "Queens", "cuisine" : "Italian"
```

```
> db.addresses.find(
...     { name :
...       { $regex : /^Mad/i, }
...     },
...     {
...       "name":1,
...       "borough":1,
...       "address.coord":1,
...       "cuisine" :1
...     }
...   )
...
... { "_id" : ObjectId("6205492c0aaafc1f94671548"), "address" : { "coord" : [ -73.9860597, 40.7431194 ] }, "borou
... { "_id" : ObjectId("6205492c0aaafc1f94671616"), "address" : { "coord" : [ -73.98302199999999, 40.742313 ] }, "borou
... { "_id" : ObjectId("6205492c0aaafc1f946718c4"), "address" : { "coord" : [ -74.000002, 40.72735 ] }, "borou
... { "_id" : ObjectId("6205492c0aaafc1f94671974"), "address" : { "coord" : [ -73.98171959999999, 40.7499406 ] }, "borou
```