MongoDB – Complex Queries

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Exercise Questions

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

db.addresses.find()

{ \_id: ObjectId("617bd890989ed18429738932"),

address:

{ building: '1007',

coord: [ -73.856077, 40.848447 ],

street: 'Morris Park Ave',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'Bakery',

grades:

[ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 } ],

name: 'Morris Park Bake Shop',

restaurant\_id: '30075445' }

{ \_id: ObjectId("617bd890989ed18429738933"),

address:

{ building: '469',

coord: [ -73.961704, 40.662942 ],

street: 'Flatbush Avenue',

zipcode: '11225' },

borough: 'Brooklyn',

cuisine: 'Hamburgers',

grades:

[ { date: 2014-12-30T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2014-07-01T00:00:00.000Z, grade: 'B', score: 23 },

{ date: 2013-04-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-05-08T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Wendy\'S',

restaurant\_id: '30112340' }

{ \_id: ObjectId("617bd890989ed18429738934"),

address:

{ building: '351',

coord: [ -73.98513559999999, 40.7676919 ],

street: 'West 57 Street',

zipcode: '10019' },

borough: 'Manhattan',

cuisine: 'Irish',

grades:

[ { date: 2014-09-06T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-07-22T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-07-31T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-12-29T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Dj Reynolds Pub And Restaurant',

restaurant\_id: '30191841' }

{ \_id: ObjectId("617bd890989ed18429738935"),

address:

{ building: '2780',

coord: [ -73.98241999999999, 40.579505 ],

street: 'Stillwell Avenue',

zipcode: '11224' },

borough: 'Brooklyn',

cuisine: 'American ',

grades:

[ { date: 2014-06-10T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-06-05T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2012-04-13T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-10-12T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Riviera Caterer',

restaurant\_id: '40356018' }

{ \_id: ObjectId("617bd890989ed18429738936"),

address:

{ building: '97-22',

coord: [ -73.8601152, 40.7311739 ],

street: '63 Road',

zipcode: '11374' },

borough: 'Queens',

cuisine: 'Jewish/Kosher',

grades:

[ { date: 2014-11-24T00:00:00.000Z, grade: 'Z', score: 20 },

{ date: 2013-01-17T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-08-02T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-12-15T00:00:00.000Z, grade: 'B', score: 25 } ],

name: 'Tov Kosher Kitchen',

restaurant\_id: '40356068' }

{ \_id: ObjectId("617bd890989ed18429738937"),

address:

{ building: '8825',

coord: [ -73.8803827, 40.7643124 ],

street: 'Astoria Boulevard',

zipcode: '11369' },

borough: 'Queens',

cuisine: 'American ',

grades:

[ { date: 2014-11-15T00:00:00.000Z, grade: 'Z', score: 38 },

{ date: 2014-05-02T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-03-02T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2012-02-10T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Brunos On The Boulevard',

restaurant\_id: '40356151' }

{ \_id: ObjectId("617bd890989ed18429738938"),

address:

{ building: '2206',

coord: [ -74.1377286, 40.6119572 ],

street: 'Victory Boulevard',

zipcode: '10314' },

borough: 'Staten Island',

cuisine: 'Jewish/Kosher',

grades:

[ { date: 2014-10-06T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2014-05-20T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-04T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-01-24T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'Kosher Island',

restaurant\_id: '40356442' }

{ \_id: ObjectId("617bd890989ed18429738939"),

address:

{ building: '7114',

coord: [ -73.9068506, 40.6199034 ],

street: 'Avenue U',

zipcode: '11234' },

borough: 'Brooklyn',

cuisine: 'Delicatessen',

grades:

[ { date: 2014-05-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2014-01-14T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-08-03T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2012-07-18T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-03-09T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-10-14T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'Wilken\'S Fine Food',

restaurant\_id: '40356483' }

{ \_id: ObjectId("617bd890989ed1842973893a"),

address:

{ building: '6409',

coord: [ -74.00528899999999, 40.628886 ],

street: '11 Avenue',

zipcode: '11219' },

borough: 'Brooklyn',

cuisine: 'American ',

grades:

[ { date: 2014-07-18T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-07-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-02-13T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-08-16T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2011-08-17T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Regina Caterers',

restaurant\_id: '40356649' }

{ \_id: ObjectId("617bd890989ed1842973893b"),

address:

{ building: '1839',

coord: [ -73.9482609, 40.6408271 ],

street: 'Nostrand Avenue',

zipcode: '11226' },

borough: 'Brooklyn',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices',

grades:

[ { date: 2014-07-14T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-07-10T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2012-07-11T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2012-02-23T00:00:00.000Z, grade: 'A', score: 8 } ],

name: 'Taste The Tropics Ice Cream',

restaurant\_id: '40356731' }

{ \_id: ObjectId("617bd890989ed1842973893c"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-28T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-06-19T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2012-06-15T00:00:00.000Z, grade: 'A', score: 3 } ],

name: 'Wild Asia',

restaurant\_id: '40357217' }

{ \_id: ObjectId("617bd890989ed1842973893d"),

address:

{ building: '7715',

coord: [ -73.9973325, 40.61174889999999 ],

street: '18 Avenue',

zipcode: '11214' },

borough: 'Brooklyn',

cuisine: 'American ',

grades:

[ { date: 2014-04-16T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-04-23T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2012-04-24T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2011-12-16T00:00:00.000Z, grade: 'A', score: 2 } ],

name: 'C & C Catering Service',

restaurant\_id: '40357437' }

{ \_id: ObjectId("617bd890989ed1842973893e"),

address:

{ building: '1269',

coord: [ -73.871194, 40.6730975 ],

street: 'Sutter Avenue',

zipcode: '11208' },

borough: 'Brooklyn',

cuisine: 'Chinese',

grades:

[ { date: 2014-09-16T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2013-08-28T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2013-04-02T00:00:00.000Z, grade: 'C', score: 56 },

{ date: 2012-08-15T00:00:00.000Z, grade: 'B', score: 27 },

{ date: 2012-03-28T00:00:00.000Z, grade: 'B', score: 27 } ],

name: 'May May Kitchen',

restaurant\_id: '40358429' }

{ \_id: ObjectId("617bd890989ed1842973893f"),

address:

{ building: '1',

coord: [ -73.96926909999999, 40.7685235 ],

street: 'East 66 Street',

zipcode: '10065' },

borough: 'Manhattan',

cuisine: 'American ',

grades:

[ { date: 2014-05-07T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2013-05-03T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2012-04-30T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2011-12-27T00:00:00.000Z, grade: 'A', score: 0 } ],

name: '1 East 66Th Street Kitchen',

restaurant\_id: '40359480' }

{ \_id: ObjectId("617bd890989ed18429738940"),

address:

{ building: '705',

coord: [ -73.9653967, 40.6064339 ],

street: 'Kings Highway',

zipcode: '11223' },

borough: 'Brooklyn',

cuisine: 'Jewish/Kosher',

grades:

[ { date: 2014-11-10T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-10-10T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-10-04T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2012-05-21T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-12-30T00:00:00.000Z, grade: 'B', score: 19 } ],

name: 'Seuda Foods',

restaurant\_id: '40360045' }

{ \_id: ObjectId("617bd890989ed18429738941"),

address:

{ building: '203',

coord: [ -73.97822040000001, 40.6435254 ],

street: 'Church Avenue',

zipcode: '11218' },

borough: 'Brooklyn',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices',

grades:

[ { date: 2014-02-10T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-01-02T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-09T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2011-11-07T00:00:00.000Z, grade: 'P', score: 12 },

{ date: 2011-07-21T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Carvel Ice Cream',

restaurant\_id: '40360076' }

{ \_id: ObjectId("617bd890989ed18429738942"),

address:

{ building: '265-15',

coord: [ -73.7032601, 40.7386417 ],

street: 'Hillside Avenue',

zipcode: '11004' },

borough: 'Queens',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices',

grades:

[ { date: 2014-10-28T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-09-18T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-09-20T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Carvel Ice Cream',

restaurant\_id: '40361322' }

{ \_id: ObjectId("617bd890989ed18429738943"),

address:

{ building: '6909',

coord: [ -74.0259567, 40.6353674 ],

street: '3 Avenue',

zipcode: '11209' },

borough: 'Brooklyn',

cuisine: 'Delicatessen',

grades:

[ { date: 2014-08-21T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2014-03-05T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2013-01-10T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Nordic Delicacies',

restaurant\_id: '40361390' }

{ \_id: ObjectId("617bd890989ed18429738944"),

address:

{ building: '522',

coord: [ -73.95171, 40.767461 ],

street: 'East 74 Street',

zipcode: '10021' },

borough: 'Manhattan',

cuisine: 'American ',

grades:

[ { date: 2014-09-02T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-12-19T00:00:00.000Z, grade: 'B', score: 16 },

{ date: 2013-05-28T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-12-07T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-03-29T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Glorious Food',

restaurant\_id: '40361521' }

{ \_id: ObjectId("617bd890989ed18429738945"),

address:

{ building: '284',

coord: [ -73.9829239, 40.6580753 ],

street: 'Prospect Park West',

zipcode: '11215' },

borough: 'Brooklyn',

cuisine: 'American ',

grades:

[ { date: 2014-11-19T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-11-14T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2012-12-05T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-05-17T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'The Movable Feast',

restaurant\_id: '40361606' }

Type "it" for more

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

db.addresses.aggregate([{$group:{\_id:{restaurant\_id:"$restaurant\_id",name:"$name",borough:"$borough",cuisine:"$cuisine"}}}])

{ \_id:

{ restaurant\_id: '40513021',

name: 'Blue Mountain Restaurant & Jerk Center',

borough: 'Brooklyn',

cuisine: 'Caribbean' } }

{ \_id:

{ restaurant\_id: '40393985',

name: 'Manetta\'S Ristorante',

borough: 'Queens',

cuisine: 'Italian' } }

{ \_id:

{ restaurant\_id: '40651300',

name: 'Elia',

borough: 'Brooklyn',

cuisine: 'Greek' } }

{ \_id:

{ restaurant\_id: '40745618',

name: 'Mike\'S Pizza',

borough: 'Brooklyn',

cuisine: 'Pizza' } }

{ \_id:

{ restaurant\_id: '40789162',

name: 'Hallmark Deli',

borough: 'Manhattan',

cuisine: 'Delicatessen' } }

{ \_id:

{ restaurant\_id: '40396053',

name: 'Chick-N-Ribs',

borough: 'Bronx',

cuisine: 'Chicken' } }

{ \_id:

{ restaurant\_id: '40543355',

name: 'Forest Hills Spa',

borough: 'Queens',

cuisine: 'American ' } }

{ \_id:

{ restaurant\_id: '40589044',

name: 'Campanile',

borough: 'Manhattan',

cuisine: 'Italian' } }

{ \_id:

{ restaurant\_id: '40700293',

name: 'Haagen-Dazs',

borough: 'Brooklyn',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices' } }

{ \_id:

{ restaurant\_id: '40403768',

name: 'Cleary Gottlieb',

borough: 'Manhattan',

cuisine: 'American ' } }

{ \_id:

{ restaurant\_id: '40727750',

name: 'Utsav Festive India Restaurant',

borough: 'Manhattan',

cuisine: 'Indian' } }

{ \_id:

{ restaurant\_id: '40821115',

name: 'Starbucks Coffee',

borough: 'Manhattan',

cuisine: 'Café/Coffee/Tea' } }

{ \_id:

{ restaurant\_id: '40549539',

name: 'Louie\'Sdale Diner',

borough: 'Bronx',

cuisine: 'American ' } }

{ \_id:

{ restaurant\_id: '40607604',

name: 'El Nuevo Cafe Latino',

borough: 'Queens',

cuisine: 'Latin (Cuban, Dominican, Puerto Rican, South & Central American)' } }

{ \_id:

{ restaurant\_id: '40716733',

name: 'Gustosa Pizza',

borough: 'Queens',

cuisine: 'Pizza' } }

{ \_id:

{ restaurant\_id: '40369139',

name: 'Pergola Des Artistes',

borough: 'Manhattan',

cuisine: 'French' } }

{ \_id:

{ restaurant\_id: '40402369',

name: 'Colony Club',

borough: 'Manhattan',

cuisine: 'American ' } }

{ \_id:

{ restaurant\_id: '40541829',

name: 'Escuelita Club',

borough: 'Manhattan',

cuisine: 'American ' } }

{ \_id:

{ restaurant\_id: '40401556',

name: 'Heights Cafe',

borough: 'Brooklyn',

cuisine: 'American ' } }

{ \_id:

{ restaurant\_id: '40524833',

name: 'Starbucks Coffee (Store #7216)',

borough: 'Manhattan',

cuisine: 'Café/Coffee/Tea' } }

Type "it" for more

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

db.addresses.aggregate([{$project:{\_id:false,"restaurant\_id":"$restaurant\_id","name":"$name","borough":"$borough","cuisine":"$cuisine"}}])

{ restaurant\_id: '30075445',

name: 'Morris Park Bake Shop',

borough: 'Bronx',

cuisine: 'Bakery' }

{ restaurant\_id: '30112340',

name: 'Wendy\'S',

borough: 'Brooklyn',

cuisine: 'Hamburgers' }

{ restaurant\_id: '30191841',

name: 'Dj Reynolds Pub And Restaurant',

borough: 'Manhattan',

cuisine: 'Irish' }

{ restaurant\_id: '40356018',

name: 'Riviera Caterer',

borough: 'Brooklyn',

cuisine: 'American ' }

{ restaurant\_id: '40356068',

name: 'Tov Kosher Kitchen',

borough: 'Queens',

cuisine: 'Jewish/Kosher' }

{ restaurant\_id: '40356151',

name: 'Brunos On The Boulevard',

borough: 'Queens',

cuisine: 'American ' }

{ restaurant\_id: '40356442',

name: 'Kosher Island',

borough: 'Staten Island',

cuisine: 'Jewish/Kosher' }

{ restaurant\_id: '40356483',

name: 'Wilken\'S Fine Food',

borough: 'Brooklyn',

cuisine: 'Delicatessen' }

{ restaurant\_id: '40356649',

name: 'Regina Caterers',

borough: 'Brooklyn',

cuisine: 'American ' }

{ restaurant\_id: '40356731',

name: 'Taste The Tropics Ice Cream',

borough: 'Brooklyn',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices' }

{ restaurant\_id: '40357217',

name: 'Wild Asia',

borough: 'Bronx',

cuisine: 'American ' }

{ restaurant\_id: '40357437',

name: 'C & C Catering Service',

borough: 'Brooklyn',

cuisine: 'American ' }

{ restaurant\_id: '40358429',

name: 'May May Kitchen',

borough: 'Brooklyn',

cuisine: 'Chinese' }

{ restaurant\_id: '40359480',

name: '1 East 66Th Street Kitchen',

borough: 'Manhattan',

cuisine: 'American ' }

{ restaurant\_id: '40360045',

name: 'Seuda Foods',

borough: 'Brooklyn',

cuisine: 'Jewish/Kosher' }

{ restaurant\_id: '40360076',

name: 'Carvel Ice Cream',

borough: 'Brooklyn',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices' }

{ restaurant\_id: '40361322',

name: 'Carvel Ice Cream',

borough: 'Queens',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices' }

{ restaurant\_id: '40361390',

name: 'Nordic Delicacies',

borough: 'Brooklyn',

cuisine: 'Delicatessen' }

{ restaurant\_id: '40361521',

name: 'Glorious Food',

borough: 'Manhattan',

cuisine: 'American ' }

{ restaurant\_id: '40361606',

name: 'The Movable Feast',

borough: 'Brooklyn',

cuisine: 'American ' }

Type "it" for more

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

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

{ restaurant\_id: '30075445',

name: 'Morris Park Bake Shop',

borough: 'Bronx',

zipcode: '10462' }

{ restaurant\_id: '30112340',

name: 'Wendy\'S',

borough: 'Brooklyn',

zipcode: '11225' }

{ restaurant\_id: '30191841',

name: 'Dj Reynolds Pub And Restaurant',

borough: 'Manhattan',

zipcode: '10019' }

{ restaurant\_id: '40356018',

name: 'Riviera Caterer',

borough: 'Brooklyn',

zipcode: '11224' }

{ restaurant\_id: '40356068',

name: 'Tov Kosher Kitchen',

borough: 'Queens',

zipcode: '11374' }

{ restaurant\_id: '40356151',

name: 'Brunos On The Boulevard',

borough: 'Queens',

zipcode: '11369' }

{ restaurant\_id: '40356442',

name: 'Kosher Island',

borough: 'Staten Island',

zipcode: '10314' }

{ restaurant\_id: '40356483',

name: 'Wilken\'S Fine Food',

borough: 'Brooklyn',

zipcode: '11234' }

{ restaurant\_id: '40356649',

name: 'Regina Caterers',

borough: 'Brooklyn',

zipcode: '11219' }

{ restaurant\_id: '40356731',

name: 'Taste The Tropics Ice Cream',

borough: 'Brooklyn',

zipcode: '11226' }

{ restaurant\_id: '40357217',

name: 'Wild Asia',

borough: 'Bronx',

zipcode: '10460' }

{ restaurant\_id: '40357437',

name: 'C & C Catering Service',

borough: 'Brooklyn',

zipcode: '11214' }

{ restaurant\_id: '40358429',

name: 'May May Kitchen',

borough: 'Brooklyn',

zipcode: '11208' }

{ restaurant\_id: '40359480',

name: '1 East 66Th Street Kitchen',

borough: 'Manhattan',

zipcode: '10065' }

{ restaurant\_id: '40360045',

name: 'Seuda Foods',

borough: 'Brooklyn',

zipcode: '11223' }

{ restaurant\_id: '40360076',

name: 'Carvel Ice Cream',

borough: 'Brooklyn',

zipcode: '11218' }

{ restaurant\_id: '40361322',

name: 'Carvel Ice Cream',

borough: 'Queens',

zipcode: '11004' }

{ restaurant\_id: '40361390',

name: 'Nordic Delicacies',

borough: 'Brooklyn',

zipcode: '11209' }

{ restaurant\_id: '40361521',

name: 'Glorious Food',

borough: 'Manhattan',

zipcode: '10021' }

{ restaurant\_id: '40361606',

name: 'The Movable Feast',

borough: 'Brooklyn',

zipcode: '11215' }

Type "it" for more

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

db.addresses.aggregate([{$match:{borough:"Bronx"}},{$limit:5}])

{ \_id: ObjectId("617bd890989ed18429738932"),

address:

{ building: '1007',

coord: [ -73.856077, 40.848447 ],

street: 'Morris Park Ave',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'Bakery',

grades:

[ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 } ],

name: 'Morris Park Bake Shop',

restaurant\_id: '30075445' }

{ \_id: ObjectId("617bd890989ed1842973893c"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-28T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-06-19T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2012-06-15T00:00:00.000Z, grade: 'A', score: 3 } ],

name: 'Wild Asia',

restaurant\_id: '40357217' }

{ \_id: ObjectId("617bd890989ed18429738951"),

address:

{ building: '1006',

coord: [ -73.84856870000002, 40.8903781 ],

street: 'East 233 Street',

zipcode: '10466' },

borough: 'Bronx',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices',

grades:

[ { date: 2014-04-24T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-09-05T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-02-21T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-07-03T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-07-11T00:00:00.000Z, grade: 'A', score: 5 } ],

name: 'Carvel Ice Cream',

restaurant\_id: '40363093' }

{ \_id: ObjectId("617bd890989ed18429738955"),

address:

{ building: '1236',

coord: [ -73.8893654, 40.81376179999999 ],

street: '238 Spofford Ave',

zipcode: '10474' },

borough: 'Bronx',

cuisine: 'Chinese',

grades:

[ { date: 2013-12-30T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-01-08T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-06-12T00:00:00.000Z, grade: 'B', score: 15 } ],

name: 'Happy Garden',

restaurant\_id: '40363289' }

{ \_id: ObjectId("617bd890989ed18429738967"),

address:

{ building: '277',

coord: [ -73.8941893, 40.8634684 ],

street: 'East Kingsbridge Road',

zipcode: '10458' },

borough: 'Bronx',

cuisine: 'Chinese',

grades:

[ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-09-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-03-19T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-08-29T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-08-17T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Happy Garden',

restaurant\_id: '40364296' }

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

db.addresses.aggregate([{$match:{borough:"Bronx"}}])

{ \_id: ObjectId("617bd890989ed18429738932"),

address:

{ building: '1007',

coord: [ -73.856077, 40.848447 ],

street: 'Morris Park Ave',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'Bakery',

grades:

[ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2013-01-24T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-11-23T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-03-10T00:00:00.000Z, grade: 'B', score: 14 } ],

name: 'Morris Park Bake Shop',

restaurant\_id: '30075445' }

{ \_id: ObjectId("617bd890989ed1842973893c"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-28T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-06-19T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2012-06-15T00:00:00.000Z, grade: 'A', score: 3 } ],

name: 'Wild Asia',

restaurant\_id: '40357217' }

{ \_id: ObjectId("617bd890989ed18429738951"),

address:

{ building: '1006',

coord: [ -73.84856870000002, 40.8903781 ],

street: 'East 233 Street',

zipcode: '10466' },

borough: 'Bronx',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices',

grades:

[ { date: 2014-04-24T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-09-05T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-02-21T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-07-03T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-07-11T00:00:00.000Z, grade: 'A', score: 5 } ],

name: 'Carvel Ice Cream',

restaurant\_id: '40363093' }

{ \_id: ObjectId("617bd890989ed18429738955"),

address:

{ building: '1236',

coord: [ -73.8893654, 40.81376179999999 ],

street: '238 Spofford Ave',

zipcode: '10474' },

borough: 'Bronx',

cuisine: 'Chinese',

grades:

[ { date: 2013-12-30T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-01-08T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-06-12T00:00:00.000Z, grade: 'B', score: 15 } ],

name: 'Happy Garden',

restaurant\_id: '40363289' }

{ \_id: ObjectId("617bd890989ed18429738967"),

address:

{ building: '277',

coord: [ -73.8941893, 40.8634684 ],

street: 'East Kingsbridge Road',

zipcode: '10458' },

borough: 'Bronx',

cuisine: 'Chinese',

grades:

[ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-09-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-03-19T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-08-29T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-08-17T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Happy Garden',

restaurant\_id: '40364296' }

{ \_id: ObjectId("617bd890989ed1842973896f"),

address:

{ building: '658',

coord: [ -73.81363999999999, 40.82941100000001 ],

street: 'Clarence Ave',

zipcode: '10465' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-06-21T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2012-07-11T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Manhem Club',

restaurant\_id: '40364363' }

{ \_id: ObjectId("617bd890989ed18429738987"),

address:

{ building: '2222',

coord: [ -73.84971759999999, 40.8304811 ],

street: 'Haviland Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-12-18T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-05-01T00:00:00.000Z, grade: 'B', score: 17 },

{ date: 2013-03-14T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-09-20T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-02-08T00:00:00.000Z, grade: 'B', score: 19 } ],

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

restaurant\_id: '40364956' }

{ \_id: ObjectId("617bd890989ed1842973899f"),

address:

{ building: '72',

coord: [ -73.92506, 40.8275556 ],

street: 'East 161 Street',

zipcode: '10451' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-04-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-11-14T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2013-07-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-12-31T00:00:00.000Z, grade: 'B', score: 15 },

{ date: 2012-05-30T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-09T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-08-15T00:00:00.000Z, grade: 'C', score: 37 } ],

name: 'Yankee Tavern',

restaurant\_id: '40365499' }

{ \_id: ObjectId("617bd890989ed184297389b2"),

address:

{ building: '331',

coord: [ -73.87786539999999, 40.8724377 ],

street: 'East 204 Street',

zipcode: '10467' },

borough: 'Bronx',

cuisine: 'Irish',

grades:

[ { date: 2014-08-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2014-03-26T00:00:00.000Z, grade: 'B', score: 23 },

{ date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-12-18T00:00:00.000Z, grade: 'B', score: 27 },

{ date: 2011-10-20T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Mcdwyers Pub',

restaurant\_id: '40365893' }

{ \_id: ObjectId("617bd890989ed184297389cb"),

address:

{ building: '5820',

coord: [ -73.9002615, 40.885186 ],

street: 'Broadway',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-02-26T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-10-09T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2013-05-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-11-20T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2011-10-17T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-06-22T00:00:00.000Z, grade: 'C', score: 35 } ],

name: 'The Punch Bowl',

restaurant\_id: '40366497' }

{ \_id: ObjectId("617bd890989ed184297389d6"),

address:

{ building: '21',

coord: [ -73.9168424, 40.8401362 ],

street: 'East 170 Street',

zipcode: '10452' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-12-16T00:00:00.000Z, grade: 'B', score: 22 },

{ date: 2014-08-12T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-03-03T00:00:00.000Z, grade: 'B', score: 22 },

{ date: 2013-08-29T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-08-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-02-13T00:00:00.000Z, grade: 'B', score: 16 } ],

name: 'Munchtime',

restaurant\_id: '40366748' }

{ \_id: ObjectId("617bd890989ed184297389d8"),

address:

{ building: '4340',

coord: [ -73.8194559, 40.8899176 ],

street: 'Boston Road',

zipcode: '10475' },

borough: 'Bronx',

cuisine: 'Pancakes/Waffles',

grades:

[ { date: 2014-09-22T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2014-05-16T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-10-30T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2013-06-05T00:00:00.000Z, grade: 'B', score: 24 },

{ date: 2012-05-14T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-04T00:00:00.000Z, grade: 'A', score: 7 } ],

name: 'Ihop',

restaurant\_id: '40366833' }

{ \_id: ObjectId("617bd890989ed184297389dd"),

address:

{ building: '1191',

coord: [ -73.8513114, 40.8316981 ],

street: 'Castle Hill Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'Café/Coffee/Tea',

grades:

[ { date: 2014-07-03T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-07-08T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-02-11T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-08-14T00:00:00.000Z, grade: 'B', score: 14 },

{ date: 2011-08-23T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Lulu\'S Coffee Shop',

restaurant\_id: '40366938' }

{ \_id: ObjectId("617bd890989ed184297389e3"),

address:

{ building: '2894',

coord: [ -73.815175, 40.8137649 ],

street: 'Schurz Ave',

zipcode: '10465' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-10-31T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2014-02-20T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2013-06-07T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-05-17T00:00:00.000Z, grade: 'A', score: 2 } ],

name: 'Marina Delray',

restaurant\_id: '40367161' }

{ \_id: ObjectId("617bd890989ed18429738a08"),

address:

{ building: '4280',

coord: [ -73.86697, 40.89794699999999 ],

street: 'Katonah Ave',

zipcode: '10470' },

borough: 'Bronx',

cuisine: 'Not Listed/Not Applicable',

grades:

[ { date: 2014-06-04T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-06-07T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2012-06-27T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2011-07-13T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'The Lark\'S Nest',

restaurant\_id: '40367946' }

{ \_id: ObjectId("617bd890989ed18429738a09"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'Café/Coffee/Tea',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-05-29T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-06-18T00:00:00.000Z, grade: 'A', score: 8 } ],

name: 'Terrace Cafe',

restaurant\_id: '40368018' }

{ \_id: ObjectId("617bd890989ed18429738a0a"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'African',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-06-01T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2012-06-12T00:00:00.000Z, grade: 'A', score: 0 },

{ date: 2011-06-08T00:00:00.000Z, grade: 'A', score: 0 } ],

name: 'African Terrace',

restaurant\_id: '40368021' }

{ \_id: ObjectId("617bd890989ed18429738a0b"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-05-17T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-06-08T00:00:00.000Z, grade: 'A', score: 5 } ],

name: 'Cool Zone',

restaurant\_id: '40368022' }

{ \_id: ObjectId("617bd890989ed18429738a0c"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-05-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-06-15T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2011-06-08T00:00:00.000Z, grade: 'A', score: 0 } ],

name: 'Beaver Pond',

restaurant\_id: '40368025' }

{ \_id: ObjectId("617bd890989ed18429738a0d"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-05-28T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2012-06-18T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2011-06-07T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'African Market (Baboon Cafe)',

restaurant\_id: '40368026' }

Type "it" for more

7. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.

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

{ \_id: ObjectId("617bd890989ed1842973896f"),

address:

{ building: '658',

coord: [ -73.81363999999999, 40.82941100000001 ],

street: 'Clarence Ave',

zipcode: '10465' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-06-21T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2012-07-11T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Manhem Club',

restaurant\_id: '40364363' }

{ \_id: ObjectId("617bd890989ed18429738987"),

address:

{ building: '2222',

coord: [ -73.84971759999999, 40.8304811 ],

street: 'Haviland Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-12-18T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-05-01T00:00:00.000Z, grade: 'B', score: 17 },

{ date: 2013-03-14T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-09-20T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-02-08T00:00:00.000Z, grade: 'B', score: 19 } ],

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

restaurant\_id: '40364956' }

{ \_id: ObjectId("617bd890989ed1842973899f"),

address:

{ building: '72',

coord: [ -73.92506, 40.8275556 ],

street: 'East 161 Street',

zipcode: '10451' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-04-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-11-14T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2013-07-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-12-31T00:00:00.000Z, grade: 'B', score: 15 },

{ date: 2012-05-30T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-09T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-08-15T00:00:00.000Z, grade: 'C', score: 37 } ],

name: 'Yankee Tavern',

restaurant\_id: '40365499' }

{ \_id: ObjectId("617bd890989ed184297389b2"),

address:

{ building: '331',

coord: [ -73.87786539999999, 40.8724377 ],

street: 'East 204 Street',

zipcode: '10467' },

borough: 'Bronx',

cuisine: 'Irish',

grades:

[ { date: 2014-08-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2014-03-26T00:00:00.000Z, grade: 'B', score: 23 },

{ date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-12-18T00:00:00.000Z, grade: 'B', score: 27 },

{ date: 2011-10-20T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Mcdwyers Pub',

restaurant\_id: '40365893' }

{ \_id: ObjectId("617bd890989ed184297389cb"),

address:

{ building: '5820',

coord: [ -73.9002615, 40.885186 ],

street: 'Broadway',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-02-26T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-10-09T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2013-05-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-11-20T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2011-10-17T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-06-22T00:00:00.000Z, grade: 'C', score: 35 } ],

name: 'The Punch Bowl',

restaurant\_id: '40366497' }

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

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

{ \_id: ObjectId("617bd890989ed1842973896f"),

address:

{ building: '658',

coord: [ -73.81363999999999, 40.82941100000001 ],

street: 'Clarence Ave',

zipcode: '10465' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-06-21T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2012-07-11T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Manhem Club',

restaurant\_id: '40364363' }

{ \_id: ObjectId("617bd890989ed18429738987"),

address:

{ building: '2222',

coord: [ -73.84971759999999, 40.8304811 ],

street: 'Haviland Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-12-18T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-05-01T00:00:00.000Z, grade: 'B', score: 17 },

{ date: 2013-03-14T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-09-20T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-02-08T00:00:00.000Z, grade: 'B', score: 19 } ],

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

restaurant\_id: '40364956' }

{ \_id: ObjectId("617bd890989ed1842973899f"),

address:

{ building: '72',

coord: [ -73.92506, 40.8275556 ],

street: 'East 161 Street',

zipcode: '10451' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-04-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-11-14T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2013-07-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-12-31T00:00:00.000Z, grade: 'B', score: 15 },

{ date: 2012-05-30T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-09T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-08-15T00:00:00.000Z, grade: 'C', score: 37 } ],

name: 'Yankee Tavern',

restaurant\_id: '40365499' }

{ \_id: ObjectId("617bd890989ed184297389b2"),

address:

{ building: '331',

coord: [ -73.87786539999999, 40.8724377 ],

street: 'East 204 Street',

zipcode: '10467' },

borough: 'Bronx',

cuisine: 'Irish',

grades:

[ { date: 2014-08-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2014-03-26T00:00:00.000Z, grade: 'B', score: 23 },

{ date: 2013-09-11T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-12-18T00:00:00.000Z, grade: 'B', score: 27 },

{ date: 2011-10-20T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Mcdwyers Pub',

restaurant\_id: '40365893' }

{ \_id: ObjectId("617bd890989ed184297389cb"),

address:

{ building: '5820',

coord: [ -73.9002615, 40.885186 ],

street: 'Broadway',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-02-26T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-10-09T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2013-05-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-11-20T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2011-10-17T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-06-22T00:00:00.000Z, grade: 'C', score: 35 } ],

name: 'The Punch Bowl',

restaurant\_id: '40366497' }

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

{ \_id: ObjectId("617bd890989ed18429738a90"),

address:

{ building: '65',

coord: [ -73.9782725, 40.7624022 ],

street: 'West 54 Street',

zipcode: '10019' },

borough: 'Manhattan',

cuisine: 'American ',

grades:

[ { date: 2014-08-22T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2014-03-28T00:00:00.000Z, grade: 'C', score: 131 },

{ date: 2013-09-25T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-04-08T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2012-10-15T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-10-19T00:00:00.000Z, grade: 'A', score: 13 } ],

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

restaurant\_id: '40372466' }

{ \_id: ObjectId("617bd890989ed18429738b31"),

address:

{ building: '345',

coord: [ -73.9864626, 40.7266739 ],

street: 'East 6 Street',

zipcode: '10003' },

borough: 'Manhattan',

cuisine: 'Indian',

grades:

[ { date: 2014-09-15T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2014-01-14T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-05-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-24T00:00:00.000Z, grade: 'P', score: 2 },

{ date: 2012-10-01T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-04-06T00:00:00.000Z, grade: 'C', score: 92 },

{ date: 2011-11-03T00:00:00.000Z, grade: 'C', score: 41 } ],

name: 'Gandhi',

restaurant\_id: '40381295' }

{ \_id: ObjectId("617bd890989ed18429738c94"),

address:

{ building: '130',

coord: [ -73.984758, 40.7457939 ],

street: 'Madison Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Pizza/Italian',

grades:

[ { date: 2014-12-24T00:00:00.000Z, grade: 'Z', score: 31 },

{ date: 2014-06-17T00:00:00.000Z, grade: 'C', score: 98 },

{ date: 2013-12-12T00:00:00.000Z, grade: 'C', score: 32 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2012-05-02T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Bella Napoli',

restaurant\_id: '40393488' }

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

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

{ \_id: ObjectId("617bd890989ed18429738a90"),

address:

{ building: '65',

coord: [ -73.9782725, 40.7624022 ],

street: 'West 54 Street',

zipcode: '10019' },

borough: 'Manhattan',

cuisine: 'American ',

grades:

[ { date: 2014-08-22T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2014-03-28T00:00:00.000Z, grade: 'C', score: 131 },

{ date: 2013-09-25T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-04-08T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2012-10-15T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-10-19T00:00:00.000Z, grade: 'A', score: 13 } ],

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

restaurant\_id: '40372466' }

{ \_id: ObjectId("617bd890989ed18429738b31"),

address:

{ building: '345',

coord: [ -73.9864626, 40.7266739 ],

street: 'East 6 Street',

zipcode: '10003' },

borough: 'Manhattan',

cuisine: 'Indian',

grades:

[ { date: 2014-09-15T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2014-01-14T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-05-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-24T00:00:00.000Z, grade: 'P', score: 2 },

{ date: 2012-10-01T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-04-06T00:00:00.000Z, grade: 'C', score: 92 },

{ date: 2011-11-03T00:00:00.000Z, grade: 'C', score: 41 } ],

name: 'Gandhi',

restaurant\_id: '40381295' }

{ \_id: ObjectId("617bd890989ed18429738c94"),

address:

{ building: '130',

coord: [ -73.984758, 40.7457939 ],

street: 'Madison Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Pizza/Italian',

grades:

[ { date: 2014-12-24T00:00:00.000Z, grade: 'Z', score: 31 },

{ date: 2014-06-17T00:00:00.000Z, grade: 'C', score: 98 },

{ date: 2013-12-12T00:00:00.000Z, grade: 'C', score: 32 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2012-05-02T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Bella Napoli',

restaurant\_id: '40393488' }

{ \_id: ObjectId("617bd894989ed18429739500"),

address:

{ building: '',

coord: [ -74.0163793, 40.7167671 ],

street: 'Hudson River',

zipcode: '10282' },

borough: 'Manhattan',

cuisine: 'American ',

grades:

[ { date: 2014-06-27T00:00:00.000Z, grade: 'C', score: 89 },

{ date: 2013-06-06T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2012-06-19T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'West 79Th Street Boat Basin Cafe',

restaurant\_id: '40756344' }

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

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

{ \_id: ObjectId("617bd892989ed18429738f7a"),

address:

{ building: '3707',

coord: [ -101.8945214, 33.5197474 ],

street: '82 Street',

zipcode: '11372' },

borough: 'Queens',

cuisine: 'American ',

grades:

[ { date: 2014-06-04T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-11-07T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2013-05-17T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-08-29T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-04-03T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-11-16T00:00:00.000Z, grade: 'A', score: 7 } ],

name: 'Burger King',

restaurant\_id: '40534067' }

{ \_id: ObjectId("617bd893989ed184297392e5"),

address:

{ building: '15259',

coord: [ -119.6368672, 36.2504996 ],

street: '10 Avenue',

zipcode: '11357' },

borough: 'Queens',

cuisine: 'Italian',

grades:

[ { date: 2014-09-04T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2014-03-26T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-03-04T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-09-27T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-04-20T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2011-11-23T00:00:00.000Z, grade: 'C', score: 34 } ],

name: 'Cascarino\'S',

restaurant\_id: '40668681' }

{ \_id: ObjectId("617bd894989ed1842973978b"),

address:

{ building: '60',

coord: [ -111.9975205, 42.0970258 ],

street: 'West Side Highway',

zipcode: '10006' },

borough: 'Manhattan',

cuisine: 'Japanese',

grades:

[ { date: 2014-03-20T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-06-28T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-07-05T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-07-27T00:00:00.000Z, 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.

db.addresses.find({$and:[{"cuisine":{$ne:"American "}},{"grades.score":{$gt:70}},{"address.coord":{$lt:-65.754168}}]})

{ \_id: ObjectId("617bd890989ed18429738b31"),

address:

{ building: '345',

coord: [ -73.9864626, 40.7266739 ],

street: 'East 6 Street',

zipcode: '10003' },

borough: 'Manhattan',

cuisine: 'Indian',

grades:

[ { date: 2014-09-15T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2014-01-14T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-05-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-24T00:00:00.000Z, grade: 'P', score: 2 },

{ date: 2012-10-01T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-04-06T00:00:00.000Z, grade: 'C', score: 92 },

{ date: 2011-11-03T00:00:00.000Z, grade: 'C', score: 41 } ],

name: 'Gandhi',

restaurant\_id: '40381295' }

{ \_id: ObjectId("617bd890989ed18429738c94"),

address:

{ building: '130',

coord: [ -73.984758, 40.7457939 ],

street: 'Madison Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Pizza/Italian',

grades:

[ { date: 2014-12-24T00:00:00.000Z, grade: 'Z', score: 31 },

{ date: 2014-06-17T00:00:00.000Z, grade: 'C', score: 98 },

{ date: 2013-12-12T00:00:00.000Z, grade: 'C', score: 32 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2012-05-02T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Bella Napoli',

restaurant\_id: '40393488' }

{ \_id: ObjectId("617bd890989ed18429738c9f"),

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: 2014-04-10T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-10-01T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2013-04-11T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2012-10-25T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-10-10T00:00:00.000Z, grade: 'P', score: 12 },

{ date: 2012-05-25T00:00:00.000Z, grade: 'B', score: 14 },

{ date: 2011-09-14T00:00:00.000Z, grade: 'B', score: 26 },

{ date: 2011-04-25T00:00:00.000Z, grade: 'C', score: 76 } ],

name: 'El Molino Rojo Restaurant',

restaurant\_id: '40393688' }

{ \_id: ObjectId("617bd892989ed18429738def"),

address:

{ building: '289',

coord: [ -73.94610279999999, 40.7137587 ],

street: 'Manhattan Avenue',

zipcode: '11211' },

borough: 'Brooklyn',

cuisine: 'Bakery',

grades:

[ { date: 2014-03-19T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-10-10T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-05-07T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-09-11T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2012-04-18T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-09-27T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2011-05-03T00:00:00.000Z, grade: 'C', score: 77 } ],

name: 'Fortunato Bros Cafe & Bakery',

restaurant\_id: '40400561' }

{ \_id: ObjectId("617bd893989ed18429739419"),

address:

{ building: '231',

coord: [ -73.9772294, 40.7527262 ],

street: 'Grand Central Station',

zipcode: '10017' },

borough: 'Manhattan',

cuisine: 'Italian',

grades:

[ { date: 2015-01-07T00:00:00.000Z, grade: 'Z', score: 20 },

{ date: 2014-07-03T00:00:00.000Z, grade: 'B', score: 14 },

{ date: 2013-12-21T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2013-05-17T00:00:00.000Z, grade: 'C', score: 76 },

{ date: 2012-04-20T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Two Boots Grand Central',

restaurant\_id: '40725591' }

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.

db.addresses.find({"cuisine":{$ne:"American "},"grades.score":{$gt:70},"address.coord":{$lt:-65.754168}})

{ \_id: ObjectId("617bd890989ed18429738b31"),

address:

{ building: '345',

coord: [ -73.9864626, 40.7266739 ],

street: 'East 6 Street',

zipcode: '10003' },

borough: 'Manhattan',

cuisine: 'Indian',

grades:

[ { date: 2014-09-15T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2014-01-14T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-05-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-24T00:00:00.000Z, grade: 'P', score: 2 },

{ date: 2012-10-01T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-04-06T00:00:00.000Z, grade: 'C', score: 92 },

{ date: 2011-11-03T00:00:00.000Z, grade: 'C', score: 41 } ],

name: 'Gandhi',

restaurant\_id: '40381295' }

{ \_id: ObjectId("617bd890989ed18429738c94"),

address:

{ building: '130',

coord: [ -73.984758, 40.7457939 ],

street: 'Madison Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Pizza/Italian',

grades:

[ { date: 2014-12-24T00:00:00.000Z, grade: 'Z', score: 31 },

{ date: 2014-06-17T00:00:00.000Z, grade: 'C', score: 98 },

{ date: 2013-12-12T00:00:00.000Z, grade: 'C', score: 32 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2012-05-02T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Bella Napoli',

restaurant\_id: '40393488' }

{ \_id: ObjectId("617bd890989ed18429738c9f"),

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: 2014-04-10T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-10-01T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2013-04-11T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2012-10-25T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-10-10T00:00:00.000Z, grade: 'P', score: 12 },

{ date: 2012-05-25T00:00:00.000Z, grade: 'B', score: 14 },

{ date: 2011-09-14T00:00:00.000Z, grade: 'B', score: 26 },

{ date: 2011-04-25T00:00:00.000Z, grade: 'C', score: 76 } ],

name: 'El Molino Rojo Restaurant',

restaurant\_id: '40393688' }

{ \_id: ObjectId("617bd892989ed18429738def"),

address:

{ building: '289',

coord: [ -73.94610279999999, 40.7137587 ],

street: 'Manhattan Avenue',

zipcode: '11211' },

borough: 'Brooklyn',

cuisine: 'Bakery',

grades:

[ { date: 2014-03-19T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-10-10T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-05-07T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-09-11T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2012-04-18T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-09-27T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2011-05-03T00:00:00.000Z, grade: 'C', score: 77 } ],

name: 'Fortunato Bros Cafe & Bakery',

restaurant\_id: '40400561' }

{ \_id: ObjectId("617bd893989ed18429739419"),

address:

{ building: '231',

coord: [ -73.9772294, 40.7527262 ],

street: 'Grand Central Station',

zipcode: '10017' },

borough: 'Manhattan',

cuisine: 'Italian',

grades:

[ { date: 2015-01-07T00:00:00.000Z, grade: 'Z', score: 20 },

{ date: 2014-07-03T00:00:00.000Z, grade: 'B', score: 14 },

{ date: 2013-12-21T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2013-05-17T00:00:00.000Z, grade: 'C', score: 76 },

{ date: 2012-04-20T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Two Boots Grand Central',

restaurant\_id: '40725591' }

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

db.addresses.find({"cuisine":{$ne:"American "},"grades.grade":"A","borough":{$ne:"Brooklyn"}}).sort({"cuisine":-1})

{ \_id: ObjectId("617bd892989ed1842973903e"),

address:

{ building: '89',

coord: [ -73.9995899, 40.7168015 ],

street: 'Baxter Street',

zipcode: '10013' },

borough: 'Manhattan',

cuisine: 'Vietnamese/Cambodian/Malaysia',

grades:

[ { date: 2014-08-21T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2013-08-31T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2013-04-11T00:00:00.000Z, grade: 'C', score: 3 },

{ date: 2012-10-17T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2012-05-15T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Thai Son',

restaurant\_id: '40559606' }

{ \_id: ObjectId("617bd892989ed184297390f7"),

address:

{ building: '8278',

coord: [ -73.88143509999999, 40.7412552 ],

street: 'Broadway',

zipcode: '11373' },

borough: 'Queens',

cuisine: 'Vietnamese/Cambodian/Malaysia',

grades:

[ { date: 2014-06-12T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2013-05-20T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-12-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-12-03T00:00:00.000Z, grade: 'P', score: 5 },

{ date: 2012-05-04T00:00:00.000Z, grade: 'B', score: 27 } ],

name: 'Pho Bac Vietnamese Seafood Cuisine',

restaurant\_id: '40578058' }

{ \_id: ObjectId("617bd893989ed184297394e0"),

address:

{ building: '148',

coord: [ -74.000254, 40.7172727 ],

street: 'Centre Street',

zipcode: '10013' },

borough: 'Manhattan',

cuisine: 'Vietnamese/Cambodian/Malaysia',

grades:

[ { date: 2014-10-01T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-05-19T00:00:00.000Z, grade: 'C', score: 5 },

{ date: 2013-11-15T00:00:00.000Z, grade: 'B', score: 14 },

{ date: 2013-03-08T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2012-05-22T00:00:00.000Z, grade: 'B', score: 23 },

{ date: 2011-10-27T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'Nha-Trang Centre Vietnam Restaurant',

restaurant\_id: '40751226' }

{ \_id: ObjectId("617bd890989ed18429738be2"),

address:

{ building: '300',

coord: [ -73.985568, 40.7307496 ],

street: 'East 12 Street',

zipcode: '10003' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-02-05T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2013-04-24T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2012-01-17T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-07-25T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Angelica Kitchen',

restaurant\_id: '40388281' }

{ \_id: ObjectId("617bd892989ed18429738d97"),

address:

{ building: '1307',

coord: [ -73.9589834, 40.77141839999999 ],

street: '3 Avenue',

zipcode: '10021' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-12-03T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2014-02-18T00:00:00.000Z, grade: 'B', score: 22 },

{ date: 2013-06-25T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-06-28T00:00:00.000Z, grade: 'A', score: 12 } ],

name: 'Candle Cafe',

restaurant\_id: '40399007' }

{ \_id: ObjectId("617bd892989ed18429738eff"),

address:

{ building: '547',

coord: [ -92.7292446, 41.7461746 ],

street: '6 Avenue',

zipcode: '10011' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-09-26T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2014-04-07T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-10-03T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-09-10T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2012-04-30T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-11-30T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Village Yogurt',

restaurant\_id: '40512123' }

{ \_id: ObjectId("617bd892989ed18429738f9f"),

address:

{ building: '46',

coord: [ -74.000252, 40.7356228 ],

street: 'Greenwich Avenue',

zipcode: '10011' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-07-01T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-12-31T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-05-24T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-10-11T00:00:00.000Z, grade: 'A', score: 6 } ],

name: 'Village Natural',

restaurant\_id: '40536786' }

{ \_id: ObjectId("617bd893989ed18429739240"),

address:

{ building: '405',

coord: [ -73.98565239999999, 40.7263767 ],

street: 'East 6 Street',

zipcode: '10009' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-09-29T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2014-01-27T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2013-07-31T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-02-26T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2012-08-06T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-19T00:00:00.000Z, grade: 'B', score: 22 } ],

name: 'Caravan Of Dreams',

restaurant\_id: '40635781' }

{ \_id: ObjectId("617bd893989ed18429739266"),

address:

{ building: '646',

coord: [ -73.97279, 40.791289 ],

street: 'Amsterdam Avenue',

zipcode: '10025' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-02-19T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-11-29T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-10-03T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-04-11T00:00:00.000Z, grade: 'A', score: 7 } ],

name: 'Mana',

restaurant\_id: '40644922' }

{ \_id: ObjectId("617bd894989ed184297396ee"),

address:

{ building: '140',

coord: [ -74.0004534, 40.7311503 ],

street: 'West 4 Street',

zipcode: '10012' },

borough: 'Manhattan',

cuisine: 'Vegetarian',

grades:

[ { date: 2014-06-30T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-06-13T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2013-01-28T00:00:00.000Z, grade: 'C', score: 54 },

{ date: 2012-06-21T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2012-01-25T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'Red Bamboo',

restaurant\_id: '40861201' }

{ \_id: ObjectId("617bd890989ed1842973894e"),

address:

{ building: '60',

coord: [ -74.0085357, 40.70620539999999 ],

street: 'Wall Street',

zipcode: '10005' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-09-26T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-09-18T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-09-21T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-05-09T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'The Country Cafe',

restaurant\_id: '40362715' }

{ \_id: ObjectId("617bd892989ed18429738da9"),

address:

{ building: '386',

coord: [ -73.981366, 40.741888 ],

street: '3 Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-09-23T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-10-01T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-09-10T00:00:00.000Z, grade: 'A', score: 5 } ],

name: 'Turkish Kitchen',

restaurant\_id: '40399372' }

{ \_id: ObjectId("617bd892989ed18429739039"),

address:

{ building: '1405',

coord: [ -73.95796530000001, 40.7697258 ],

street: 'Second Avenue',

zipcode: '10021' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-10-23T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2014-03-20T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-08-28T00:00:00.000Z, grade: 'B', score: 21 },

{ date: 2012-12-05T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-10-27T00:00:00.000Z, grade: 'A', score: 7 } ],

name: 'Uskudar Restaurant',

restaurant\_id: '40559172' }

{ \_id: ObjectId("617bd892989ed1842973903d"),

address:

{ building: '64',

coord: [ -73.9788293, 40.7765158 ],

street: 'West 71 Street',

zipcode: '10023' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-09-04T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2014-02-07T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-04-18T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-07-25T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-02-01T00:00:00.000Z, grade: 'A', score: 7 } ],

name: 'Pasha Turkish Restaurant',

restaurant\_id: '40559546' }

{ \_id: ObjectId("617bd893989ed184297391d2"),

address:

{ building: '25505',

coord: [ -73.734503, 40.772264 ],

street: 'Northern Boulevard',

zipcode: '11362' },

borough: 'Queens',

cuisine: 'Turkish',

grades:

[ { date: 2014-12-29T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2014-04-24T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2013-09-25T00:00:00.000Z, grade: 'B', score: 17 },

{ date: 2013-02-20T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Kebab House',

restaurant\_id: '40608102' }

{ \_id: ObjectId("617bd893989ed184297392e2"),

address:

{ building: '631',

coord: [ -73.991755, 40.760138 ],

street: '9 Avenue',

zipcode: '10036' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-06-10T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-12-30T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-24T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-09-18T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-02-22T00:00:00.000Z, grade: 'B', score: 20 } ],

name: 'Turkish Cuisine',

restaurant\_id: '40668464' }

{ \_id: ObjectId("617bd893989ed184297394cc"),

address:

{ building: '2637',

coord: [ -73.970573, 40.797339 ],

street: 'Broadway',

zipcode: '10025' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-06-27T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-29T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2012-04-19T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-10-05T00:00:00.000Z, grade: 'B', score: 15 } ],

name: 'Turkuaz Turkish Cuisine',

restaurant\_id: '40749081' }

{ \_id: ObjectId("617bd894989ed184297395f9"),

address:

{ building: '513',

coord: [ -73.978636, 40.74148 ],

street: '2 Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Turkish',

grades:

[ { date: 2014-10-22T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2014-05-08T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2013-11-19T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-04-03T00:00:00.000Z, grade: 'B', score: 26 },

{ date: 2012-02-21T00:00:00.000Z, grade: 'A', score: 4 } ],

name: 'Saharas Turkish Cuisine',

restaurant\_id: '40815015' }

{ \_id: ObjectId("617bd890989ed18429738ab1"),

address:

{ building: '244',

coord: [ -73.9865289, 40.7606981 ],

street: 'West 48 Street',

zipcode: '10036' },

borough: 'Manhattan',

cuisine: 'Thai',

grades:

[ { date: 2014-08-13T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2014-01-14T00:00:00.000Z, grade: 'B', score: 24 },

{ date: 2013-07-25T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-01-10T00:00:00.000Z, grade: 'C', score: 4 },

{ date: 2012-06-18T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-02-17T00:00:00.000Z, grade: 'P', score: 6 } ],

name: 'Pongsri Thai Restaurant',

restaurant\_id: '40374088' }

{ \_id: ObjectId("617bd890989ed18429738c79"),

address:

{ building: '396',

coord: [ -73.9809909, 40.7422324 ],

street: 'Third Avenue',

zipcode: '10016' },

borough: 'Manhattan',

cuisine: 'Thai',

grades:

[ { date: 2014-10-30T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2014-06-04T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2013-03-08T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-10-01T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'Jaiya Thai Oriental Restaurant',

restaurant\_id: '40392724' }

Type "it" for more

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.

db.addresses.find({name: /^Wil/},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1});

{ \_id: ObjectId("617bd890989ed18429738939"),

borough: 'Brooklyn',

cuisine: 'Delicatessen',

name: 'Wilken\'S Fine Food',

restaurant\_id: '40356483' }

{ \_id: ObjectId("617bd890989ed1842973893c"),

borough: 'Bronx',

cuisine: 'American ',

name: 'Wild Asia',

restaurant\_id: '40357217' }

{ \_id: ObjectId("617bd894989ed18429739741"),

borough: 'Bronx',

cuisine: 'Pizza',

name: 'Wilbel Pizza',

restaurant\_id: '40871979' }

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.

db.addresses.find({name: /ces$/},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1})

{ \_id: ObjectId("617bd892989ed18429738dc5"),

borough: 'Manhattan',

cuisine: 'American ',

name: 'Pieces',

restaurant\_id: '40399910' }

{ \_id: ObjectId("617bd892989ed18429738e84"),

borough: 'Queens',

cuisine: 'American ',

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

restaurant\_id: '40403857' }

{ \_id: ObjectId("617bd892989ed18429738e8a"),

borough: 'Manhattan',

cuisine: 'American ',

name: 'Good Shepherd Services',

restaurant\_id: '40403989' }

{ \_id: ObjectId("617bd893989ed1842973933d"),

borough: 'Queens',

cuisine: 'Ice Cream, Gelato, Yogurt, Ices',

name: 'The Ice Box-Ralph\'S Famous Italian Ices',

restaurant\_id: '40690899' }

{ \_id: ObjectId("617bd894989ed1842973953f"),

borough: 'Brooklyn',

cuisine: 'Jewish/Kosher',

name: 'Alices',

restaurant\_id: '40782042' }

{ \_id: ObjectId("617bd894989ed1842973975b"),

borough: 'Manhattan',

cuisine: 'American ',

name: 'Re: Sources',

restaurant\_id: '40876068' }

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.

db.addresses.find({name: /.\*Reg.\*/},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1});

{ \_id: ObjectId("617bd890989ed1842973893a"),

borough: 'Brooklyn',

cuisine: 'American ',

name: 'Regina Caterers',

restaurant\_id: '40356649' }

{ \_id: ObjectId("617bd890989ed18429738a37"),

borough: 'Manhattan',

cuisine: 'Café/Coffee/Tea',

name: 'Caffe Reggio',

restaurant\_id: '40369418' }

{ \_id: ObjectId("617bd890989ed18429738b46"),

borough: 'Manhattan',

cuisine: 'American ',

name: 'Regency Hotel',

restaurant\_id: '40382679' }

{ \_id: ObjectId("617bd892989ed18429738e63"),

borough: 'Manhattan',

cuisine: 'American ',

name: 'Regency Whist Club',

restaurant\_id: '40402377' }

{ \_id: ObjectId("617bd892989ed18429738f46"),

borough: 'Queens',

cuisine: 'American ',

name: 'Rego Park Cafe',

restaurant\_id: '40523342' }

{ \_id: ObjectId("617bd894989ed184297395b4"),

borough: 'Queens',

cuisine: 'Pizza',

name: 'Regina Pizza',

restaurant\_id: '40801325' }

{ \_id: ObjectId("617bd894989ed184297397cb"),

borough: 'Manhattan',

cuisine: 'American ',

name: 'Regal Entertainment Group',

restaurant\_id: '40891782' }

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({"borough":"Bronx",$or:[{"cuisine":"American "},{"cuisine":"Chinese"}]})

{ \_id: ObjectId("617bd890989ed1842973893c"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-28T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-06-19T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2012-06-15T00:00:00.000Z, grade: 'A', score: 3 } ],

name: 'Wild Asia',

restaurant\_id: '40357217' }

{ \_id: ObjectId("617bd890989ed18429738955"),

address:

{ building: '1236',

coord: [ -73.8893654, 40.81376179999999 ],

street: '238 Spofford Ave',

zipcode: '10474' },

borough: 'Bronx',

cuisine: 'Chinese',

grades:

[ { date: 2013-12-30T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-01-08T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-06-12T00:00:00.000Z, grade: 'B', score: 15 } ],

name: 'Happy Garden',

restaurant\_id: '40363289' }

{ \_id: ObjectId("617bd890989ed18429738967"),

address:

{ building: '277',

coord: [ -73.8941893, 40.8634684 ],

street: 'East Kingsbridge Road',

zipcode: '10458' },

borough: 'Bronx',

cuisine: 'Chinese',

grades:

[ { date: 2014-03-03T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-09-26T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-03-19T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-08-29T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-08-17T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Happy Garden',

restaurant\_id: '40364296' }

{ \_id: ObjectId("617bd890989ed1842973896f"),

address:

{ building: '658',

coord: [ -73.81363999999999, 40.82941100000001 ],

street: 'Clarence Ave',

zipcode: '10465' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-06-21T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2012-07-11T00:00:00.000Z, grade: 'A', score: 10 } ],

name: 'Manhem Club',

restaurant\_id: '40364363' }

{ \_id: ObjectId("617bd890989ed18429738987"),

address:

{ building: '2222',

coord: [ -73.84971759999999, 40.8304811 ],

street: 'Haviland Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-12-18T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-05-01T00:00:00.000Z, grade: 'B', score: 17 },

{ date: 2013-03-14T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-09-20T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-02-08T00:00:00.000Z, grade: 'B', score: 19 } ],

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

restaurant\_id: '40364956' }

{ \_id: ObjectId("617bd890989ed1842973899f"),

address:

{ building: '72',

coord: [ -73.92506, 40.8275556 ],

street: 'East 161 Street',

zipcode: '10451' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-04-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2013-11-14T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2013-07-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-12-31T00:00:00.000Z, grade: 'B', score: 15 },

{ date: 2012-05-30T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-09T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-08-15T00:00:00.000Z, grade: 'C', score: 37 } ],

name: 'Yankee Tavern',

restaurant\_id: '40365499' }

{ \_id: ObjectId("617bd890989ed184297389cb"),

address:

{ building: '5820',

coord: [ -73.9002615, 40.885186 ],

street: 'Broadway',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-02-26T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-10-09T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2013-05-15T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-11-20T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2011-10-17T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-06-22T00:00:00.000Z, grade: 'C', score: 35 } ],

name: 'The Punch Bowl',

restaurant\_id: '40366497' }

{ \_id: ObjectId("617bd890989ed184297389d6"),

address:

{ building: '21',

coord: [ -73.9168424, 40.8401362 ],

street: 'East 170 Street',

zipcode: '10452' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-12-16T00:00:00.000Z, grade: 'B', score: 22 },

{ date: 2014-08-12T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2014-03-03T00:00:00.000Z, grade: 'B', score: 22 },

{ date: 2013-08-29T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-08-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-02-13T00:00:00.000Z, grade: 'B', score: 16 } ],

name: 'Munchtime',

restaurant\_id: '40366748' }

{ \_id: ObjectId("617bd890989ed184297389e3"),

address:

{ building: '2894',

coord: [ -73.815175, 40.8137649 ],

street: 'Schurz Ave',

zipcode: '10465' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-10-31T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2014-02-20T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2013-06-07T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-05-17T00:00:00.000Z, grade: 'A', score: 2 } ],

name: 'Marina Delray',

restaurant\_id: '40367161' }

{ \_id: ObjectId("617bd890989ed18429738a0b"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2012-05-17T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-06-08T00:00:00.000Z, grade: 'A', score: 5 } ],

name: 'Cool Zone',

restaurant\_id: '40368022' }

{ \_id: ObjectId("617bd890989ed18429738a0c"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-05-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-06-15T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2011-06-08T00:00:00.000Z, grade: 'A', score: 0 } ],

name: 'Beaver Pond',

restaurant\_id: '40368025' }

{ \_id: ObjectId("617bd890989ed18429738a0d"),

address:

{ building: '2300',

coord: [ -73.8786113, 40.8502883 ],

street: 'Southern Boulevard',

zipcode: '10460' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-21T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-05-28T00:00:00.000Z, grade: 'A', score: 3 },

{ date: 2012-06-18T00:00:00.000Z, grade: 'A', score: 4 },

{ date: 2011-06-07T00:00:00.000Z, grade: 'A', score: 9 } ],

name: 'African Market (Baboon Cafe)',

restaurant\_id: '40368026' }

{ \_id: ObjectId("617bd890989ed18429738a2d"),

address:

{ building: '3533',

coord: [ -73.9100082, 40.8863835 ],

street: 'Johnson Avenue',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-02-20T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-09-09T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-03-26T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-03-08T00:00:00.000Z, grade: 'P', score: 2 },

{ date: 2012-09-26T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2012-04-13T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2011-07-26T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-02-26T00:00:00.000Z, grade: 'A', score: 13 } ],

name: 'Blue Bay Restaurant',

restaurant\_id: '40369087' }

{ \_id: ObjectId("617bd890989ed18429738a3f"),

address:

{ building: '2375',

coord: [ -73.85534559999999, 40.8426433 ],

street: 'East Tremont Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-10-14T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2014-04-08T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-11-04T00:00:00.000Z, grade: 'C', score: 45 },

{ date: 2013-05-23T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-10-18T00:00:00.000Z, grade: 'B', score: 15 },

{ date: 2012-10-05T00:00:00.000Z, grade: 'P', score: 12 },

{ date: 2012-05-14T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-12-21T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Bronx Grill',

restaurant\_id: '40369601' }

{ \_id: ObjectId("617bd890989ed18429738a51"),

address:

{ building: '170',

coord: [ -73.9035553, 40.878342 ],

street: 'West 231 Street',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-10-01T00:00:00.000Z, grade: 'B', score: 18 },

{ date: 2014-04-23T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-10-23T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-05-21T00:00:00.000Z, grade: 'B', score: 19 },

{ date: 2013-05-02T00:00:00.000Z, grade: 'P', score: 3 },

{ date: 2012-11-20T00:00:00.000Z, grade: 'B', score: 24 } ],

name: 'P & K\'S Grill',

restaurant\_id: '40369895' }

{ \_id: ObjectId("617bd890989ed18429738a5b"),

address:

{ building: '4272',

coord: [ -73.86720489999999, 40.8977501 ],

street: 'Katonah Avenue',

zipcode: '10470' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-23T00:00:00.000Z, grade: 'A', score: 11 },

{ date: 2013-11-04T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2013-04-29T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-09-24T00:00:00.000Z, grade: 'B', score: 15 } ],

name: 'John Mulligan\'S Fireside Pub',

restaurant\_id: '40370150' }

{ \_id: ObjectId("617bd890989ed18429738ab5"),

address:

{ building: '2942',

coord: [ -73.832183, 40.84710099999999 ],

street: 'Westchester Avenue',

zipcode: '10461' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-02-10T00:00:00.000Z, grade: 'A', score: 8 },

{ date: 2013-09-18T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2013-04-17T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2012-10-15T00:00:00.000Z, grade: 'B', score: 25 },

{ date: 2011-10-17T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2011-07-14T00:00:00.000Z, grade: 'B', score: 18 } ],

name: 'Quality Cafe & Restaurant',

restaurant\_id: '40374259' }

{ \_id: ObjectId("617bd890989ed18429738b1f"),

address:

{ building: '3657',

coord: [ -73.901496, 40.885102 ],

street: 'Kingsbridge Avenue',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-09-25T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2014-04-30T00:00:00.000Z, grade: 'B', score: 20 },

{ date: 2013-08-19T00:00:00.000Z, grade: 'A', score: 2 },

{ date: 2013-03-06T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2012-01-26T00:00:00.000Z, grade: 'A', score: 9 },

{ date: 2011-10-19T00:00:00.000Z, grade: 'B', score: 18 } ],

name: 'Riverdale Diner',

restaurant\_id: '40380253' }

{ \_id: ObjectId("617bd890989ed18429738b44"),

address:

{ building: '1506',

coord: [ -73.8537226, 40.8427071 ],

street: 'Bronxdale Avenue',

zipcode: '10462' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-06-04T00:00:00.000Z, grade: 'A', score: 5 },

{ date: 2013-05-22T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2012-12-13T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-05-14T00:00:00.000Z, grade: 'B', score: 16 },

{ date: 2011-12-28T00:00:00.000Z, grade: 'A', score: 13 },

{ date: 2011-08-10T00:00:00.000Z, grade: 'A', score: 11 } ],

name: 'Castlehill Diner',

restaurant\_id: '40382517' }

{ \_id: ObjectId("617bd890989ed18429738b60"),

address:

{ building: '5977',

coord: [ -73.8982704, 40.8896923 ],

street: 'Broadway',

zipcode: '10463' },

borough: 'Bronx',

cuisine: 'American ',

grades:

[ { date: 2014-05-30T00:00:00.000Z, grade: 'A', score: 6 },

{ date: 2013-04-25T00:00:00.000Z, grade: 'A', score: 7 },

{ date: 2012-11-20T00:00:00.000Z, grade: 'A', score: 12 },

{ date: 2012-05-30T00:00:00.000Z, grade: 'A', score: 10 },

{ date: 2011-12-19T00:00:00.000Z, grade: 'B', score: 18 } ],

name: 'Short Stop Restaurant',

restaurant\_id: '40383819' }

Type "it" for more

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 Bronxor Brooklyn.

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 Bronxor Brooklyn.

> db.addresses.find({"borough":{$in:["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1}) { "\_id" : ObjectId("617665b120a42092c7cb0ba2"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant\_id" : "30075445" } { "\_id" : ObjectId("617665b120a42092c7cb0ba3"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant\_id" : "30112340" } { "\_id" : ObjectId("617665b120a42092c7cb0ba5"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant\_id" : "40356018" } { "\_id" : ObjectId("617665b120a42092c7cb0ba6"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant\_id" : "40356068" } { "\_id" : ObjectId("617665b120a42092c7cb0ba7"), "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant\_id" : "40356151" } { "\_id" : ObjectId("617665b120a42092c7cb0ba8"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant\_id" : "40356442" } { "\_id" : ObjectId("617665b120a42092c7cb0ba9"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant\_id" : "40356483" } { "\_id" : ObjectId("617665b120a42092c7cb0baa"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant\_id" : "40356649" } { "\_id" : ObjectId("617665b120a42092c7cb0bab"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant\_id" : "40356731" } { "\_id" : ObjectId("617665b120a42092c7cb0bac"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant\_id" : "40357217" } { "\_id" : ObjectId("617665b120a42092c7cb0bad"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "restaurant\_id" : "40357437" } { "\_id" : ObjectId("617665b120a42092c7cb0bae"), "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant\_id" : "40358429" } { "\_id" : ObjectId("617665b120a42092c7cb0bb0"), "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant\_id" : "40360045" } { "\_id" : ObjectId("617665b120a42092c7cb0bb1"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant\_id" : "40360076" } { "\_id" : ObjectId("617665b120a42092c7cb0bb2"), "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant\_id" : "40361322" } { "\_id" : ObjectId("617665b120a42092c7cb0bb3"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant\_id" : "40361390" } { "\_id" : ObjectId("617665b120a42092c7cb0bb5"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "The Movable Feast", "restaurant\_id" : "40361606" } { "\_id" : ObjectId("617665b120a42092c7cb0bb6"), "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Sal'S Deli", "restaurant\_id" : "40361618" } { "\_id" : ObjectId("617665b120a42092c7cb0bb8"), "borough" : "Queens", "cuisine" : "Delicatessen", "name" : "Steve Chu'S Deli & Grocery", "restaurant\_id" : "40361998" } { "\_id" : ObjectId("617665b120a42092c7cb0bbc"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "White Castle", "restaurant\_id" : "40362344" } Type "it" for more

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

> db.addresses.find({"borough":{$nin:["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1}) { "\_id" : ObjectId("617665b120a42092c7cb0ba4"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant\_id" : "30191841" } { "\_id" : ObjectId("617665b120a42092c7cb0baf"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen", "restaurant\_id" : "40359480" } { "\_id" : ObjectId("617665b120a42092c7cb0bb4"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Glorious Food", "restaurant\_id" : "40361521" } { "\_id" : ObjectId("617665b120a42092c7cb0bb7"), "borough" : "Manhattan", "cuisine" : "Delicatessen", "name" : "Bully'S Deli", "restaurant\_id" : "40361708" } { "\_id" : ObjectId("617665b120a42092c7cb0bb9"), "borough" : "Manhattan", "cuisine" : "Chicken", "name" : "Harriet'S Kitchen", "restaurant\_id" : "40362098" } { "\_id" : ObjectId("617665b120a42092c7cb0bba"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "P & S Deli Grocery", "restaurant\_id" : "40362264" } { "\_id" : ObjectId("617665b120a42092c7cb0bbb"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Angelika Film Center", "restaurant\_id" : "40362274" } { "\_id" : ObjectId("617665b120a42092c7cb0bbe"), "borough" : "Manhattan", "cuisine" : "Turkish", "name" : "The Country Cafe", "restaurant\_id" : "40362715" } { "\_id" : ObjectId("617665b120a42092c7cb0bc0"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Downtown Deli", "restaurant\_id" : "40363021" } { "\_id" : ObjectId("617665b120a42092c7cb0bc4"), "borough" : "Manhattan", "cuisine" : "Bakery", "name" : "Olive'S", "restaurant\_id" : "40363151" } { "\_id" : ObjectId("617665b120a42092c7cb0bc6"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Cafe Metro", "restaurant\_id" : "40363298" } { "\_id" : ObjectId("617665b120a42092c7cb0bc8"), "borough" : "Manhattan", "cuisine" : "Sandwiches/Salads/Mixed Buffet", "name" : "Lexler Deli", "restaurant\_id" : "40363426" } { "\_id" : ObjectId("617665b120a42092c7cb0bcc"), "borough" : "Manhattan", "cuisine" : "Continental", "name" : "Lorenzo & Maria'S", "restaurant\_id" : "40363630" } { "\_id" : ObjectId("617665b120a42092c7cb0bcd"), "borough" : "Manhattan", "cuisine" : "Pizza", "name" : "Domino'S Pizza", "restaurant\_id" : "40363644" } { "\_id" : ObjectId("617665b120a42092c7cb0bce"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Berkely", "restaurant\_id" : "40363685" }

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

> db.addresses.find({"grades.score":{$not:{$gt:10}}},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1}) { "\_id" : ObjectId("617665b120a42092c7cb0bad"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "restaurant\_id" : "40357437" } { "\_id" : ObjectId("617665b120a42092c7cb0baf"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen", "restaurant\_id" : "40359480" } { "\_id" : ObjectId("617665b120a42092c7cb0bb3"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant\_id" : "40361390" } { "\_id" : ObjectId("617665b120a42092c7cb0bbc"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "White Castle", "restaurant\_id" : "40362344" } { "\_id" : ObjectId("617665b120a42092c7cb0bcf"), "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Sonny'S Heros", "restaurant\_id" : "40363744" } { "\_id" : ObjectId("617665b120a42092c7cb0bdf"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Manhem Club", "restaurant\_id" : "40364363" } { "\_id" : ObjectId("617665b120a42092c7cb0bed"), "borough" : "Staten Island", "cuisine" : "American ", "name" : "Great Kills Yacht Club", "restaurant\_id" : "40364610" } { "\_id" : ObjectId("617665b120a42092c7cb0bf4"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Serendipity 3", "restaurant\_id" : "40364863" } { "\_id" : ObjectId("617665b120a42092c7cb0bf8"), "borough" : "Manhattan", "cuisine" : "American ", "name" : "White Horse Tavern", "restaurant\_id" : "40364958" } { "\_id" : ObjectId("617665b120a42092c7cb0c01"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dorrian'S Red Hand Restaurant", "restaurant\_id" : "40365239" } { "\_id" : ObjectId("617665b120a42092c7cb0c52"), "borough" : "Manhattan", "cuisine" : "Mexican", "name" : "Mexico Lindo Restaurant", "restaurant\_id" : "40367038" } { "\_id" : ObjectId("617665b120a42092c7cb0c72"), "borough" : "Brooklyn", "cuisine" : "Greek", "name" : "El Greco Diner", "restaurant\_id" : "40367795" } { "\_id" : ObjectId("617665b120a42092c7cb0c78"), "borough" : "Bronx", "cuisine" : "Not Listed/Not Applicable", "name" : "The Lark'S Nest", "restaurant\_id" : "40367946" } { "\_id" : ObjectId("617665b120a42092c7cb0c79"), "borough" : "Bronx", "cuisine" : "Café/Coffee/Tea", "name" : "Terrace Cafe", "restaurant\_id" : "40368018" } { "\_id" : ObjectId("617665b120a42092c7cb0c7a"), "borough" : "Bronx", "cuisine" : "African", "name" : "African Terrace", "restaurant\_id" : "40368021" } { "\_id" : ObjectId("617665b120a42092c7cb0c7d"), "borough" : "Bronx", "cuisine" : "American ", "name" : "African Market (Baboon Cafe)", "restaurant\_id" : "40368026" }

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

> db.addresses.find({$or:[{name:/^Will/},{"$and":[{"cuisine":{$ne:"American "}},{"cuisine":{$ne:"Chinees"}}]}]},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1}) { "\_id" : ObjectId("617665b120a42092c7cb0ba2"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant\_id" : "30075445" } { "\_id" : ObjectId("617665b120a42092c7cb0ba3"), "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant\_id" : "30112340" } { "\_id" : ObjectId("617665b120a42092c7cb0ba4"), "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant\_id" : "30191841" } { "\_id" : ObjectId("617665b120a42092c7cb0ba6"), "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant\_id" : "40356068" } { "\_id" : ObjectId("617665b120a42092c7cb0ba8"), "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant\_id" : "40356442" } { "\_id" : ObjectId("617665b120a42092c7cb0ba9"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant\_id" : "40356483" } { "\_id" : ObjectId("617665b120a42092c7cb0bab"), "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant\_id" : "40356731" }

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

> db.addresses.find({"grades.date":ISODate("2014-08-11T00:00:00Z"),"grades.grade":"A","grades.score":11},{"restaurant\_id":1,"name":1,"grades":1}) { "\_id" : ObjectId("617665b120a42092c7cb0c20"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-07-22T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-03-14T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-07-02T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-02-02T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-08-24T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Neary'S Pub", "restaurant\_id" : "40365871" } { "\_id" : ObjectId("617665b120a42092c7cb0cfb"), "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" } { "\_id" : ObjectId("617665b120a42092c7cb0fc1"), "grades" : [ { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" : "A", "score" : 6 }, { "date" : ISODate("2013-08-29T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-25T00:00:00Z"), "grade" : "C", "score" : 2 }, { "date" : ISODate("2012-10-23T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-04-16T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-11-15T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Mustang Sally'S Restaurant", "restaurant\_id" : "40397374" }

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

> db.addresses.find({"grades.1.date":ISODate("2014-08-11T00:00:00Z"),"grades.1.grade":"A","grades.1.score":9},{"restaurant\_id":1,"name":1,"grades":1}) { "\_id" : ObjectId("617665b120a42092c7cb11cd"), "grades" : [ { "date" : ISODate("2015-01-12T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-08-11T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2014-01-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-02-07T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-04-30T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Club Macanudo (Cigar Bar)", "restaurant\_id" : "40526406" }

24. Write a MongoDB query to find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of coord array contains a value which is more than 42 and upto 52..

> db.addresses.find({"address.coord.1":{$gt:42,$lte:52}},{"restaurant\_id":1,"name":1,"address":1,"coord":1}) { "\_id" : ObjectId("617665b120a42092c7cb0e44"), "address" : { "building" : "47", "coord" : [ -78.877224, 42.89546199999999 ], "street" : "Broadway @ Trinity Pl", "zipcode" : "10006" }, "name" : "T.G.I. Friday'S", "restaurant\_id" : "40387990" } { "\_id" : ObjectId("617665b120a42092c7cb0e70"), "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664 ], "street" : "Pennplaza E, Penn Sta", "zipcode" : "10001" }, "name" : "T.G.I. Fridays", "restaurant\_id" : "40388936" } { "\_id" : ObjectId("617665b120a42092c7cb10c9"), "address" : { "building" : "3000", "coord" : [ -87.86567699999999, 42.61150920000001 ], "street" : "47 Avenue", "zipcode" : "11101" }, "name" : "Di Luvio'S Deli", "restaurant\_id" : "40402284" } { "\_id" : ObjectId("617665b120a42092c7cb12fe"), "address" : { "building" : "21972199", "coord" : [ -78.589606, 42.8912372 ], "street" : "Broadway", "zipcode" : "10024" }, "name" : "La Caridad 78", "restaurant\_id" : "40568285" }

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

> db.addresses.find().sort({"name":1}) { "\_id" : ObjectId("617665b220a42092c7cb1832"), "address" : { "building" : "129", "coord" : [ -73.962943, 40.685007 ], "street" : "Gates Avenue", "zipcode" : "11238" }, "borough" : "Brooklyn", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-03-06T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-08-29T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-03-08T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-06-27T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2011-11-17T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "(Lewis Drug Store) Locanda Vini E Olii", "restaurant\_id" : "40804423" } { "\_id" : ObjectId("617665b120a42092c7cb0baf"), "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("617665b220a42092c7cb1568"), "address" : { "building" : "256", "coord" : [ -73.998993, 40.74718060000001 ], "street" : "10Th Ave Bet 24 & 25 St )", "zipcode" : "10001" }, "borough" : "Manhattan", "cuisine" : "Pizza", "grades" : [ { "date" : ISODate("2014-11-10T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-10- 21T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-05-31T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-12-14T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-07-09T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-02-03T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "10Th { "\_id" : ObjectId("617665b220a42092c7cb1838"), "address" : { "building" : "525", "coord" : [ -73.9728136, 40.75546629999999 ], "street" : "Lexington Ave", "zipcode" : "10017" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-07-22T00:00:00Z"), "grade" : "C", "score" : 41 }, { "date" : ISODate("2014-01-24T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-05-15T00:00:00Z"), "grade" : "B", "score" : 24 }, { "date" : ISODate("2012-09-12T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-04-12T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-10-24T00:00:00Z"), "grade" : "C", "score" : 33 } ], "name" : "525 Lex Restaurant & Bar", "restaurant\_id" : "40806489" }

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

> db.addresses.find().sort({"name":-1}) { "\_id" : ObjectId("617665b120a42092c7cb0c61"), "address" : { "building" : "6946", "coord" : [ -73.8811834, 40.7017759 ], "street" : "Myrtle Avenue", "zipcode" : "11385" }, "borough" : "Queens", "cuisine" : "German", "grades" : [ { "date" : ISODate("2014-09-24T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2014-04-17T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2013-03-12T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-10-02T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-05-09T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-12-28T00:00:00Z"), "grade" : "B", "score" : 24 } ], "name" : "Zum Stammtisch", "restaurant\_id" : "40367377" } { "\_id" : ObjectId("617665b220a42092c7cb179b"), "address" : { "building" : "107109", "coord" : [ -73.9744668, 40.731155 ], "street" : "Avenue C", "zipcode" : "10009" }, "borough" : "Manhattan", "cuisine" : "German", "grades" : [ { "date" : ISODate("2014-03-04T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2013-08-21T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-02-27T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-06-05T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-12-20T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2011-07-15T00:00:00Z"), "grade" : "A", "score" : 6 } ], "name" : "Zum Schneider", "restaurant\_id" : "40763382" } Street", "zipcode" : "10017" }, "borough" : "Manhattan", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-09-29T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-09-11T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-09-14T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Zaro'S Bakery", "restaurant\_id" : "40423705" } { "\_id" : ObjectId("617665b220a42092c7cb159e"), "address" : { "building" : "370", "coord" : [ -73.9768121, 40.7507385 ], "street" : "Lexington Avenue", "zipcode" : "10017" }, "borough" : "Manhattan", "cuisine" : "Bakery", "grades" : [ { "date" : ISODate("2014-09-18T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-09-09T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-08T00:00:00Z"), "grade" : "B", "score" : 14 }, { "date" : ISODate("2012-10-15T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-05-24T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2011-10-31T00:00:00Z"), "grade" : "B", "score" : 25 } ], "name" : "Zaro'S Bakery", "restaurant\_id" : "40686674" } { "\_id" : ObjectId("617665b220a42092c7cb13e6"), "address" : { "building" : "292", "coord" : [ -73.9218923, 40.8169858 ], "street" : "East 149 Street", "zipcode" : "10451" }, "borough" : "Bronx", "cuisine" : "Pizza/Italian", "grades" : [ { "date" : ISODate("2014-10-06T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-05-20T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-03-25T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-09-20T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Yolanda Pizzeria Restaurant", "restaurant\_id" : "40594879" }

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

> db.addresses.find().sort({"cuisine":1,"borough":-1}) { "\_id" : ObjectId("617665b120a42092c7cb128d"), "address" : { "building" : "1345", "coord" : [ -73.959249, 40.768076 ], "street" : "2 Avenue", "zipcode" : "10021" }, "borough" : "Manhattan", "cuisine" : "Afghan", "grades" : [ { "date" : ISODate("2014-10-07T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-10-23T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2012-10-26T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-04-26T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-01-12T00:00:00Z"), "grade" : "P", "score" : 10 } ], "name" : "Afghan Kebab House", "restaurant\_id" : "40552806" } { "\_id" : ObjectId("617665b220a42092c7cb13b8"), "address" : { "building" : "34", "coord" : [ -73.9883612, 40.7286391 ], "street" : "St Marks Place", "zipcode" : "10003" }, "borough" : "Manhattan", "cuisine" : "Afghan", "grades" : [ { "date" : ISODate("2014-02-20T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-08-06T00:00:00Z"), "grade" : "B", "score" : 17 }, { "date" : ISODate("2013-01-31T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-05-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-12-13T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2011-08-25T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Khyber Pass", "restaurant\_id" : "40589545" } { "\_id" : ObjectId("617665b220a42092c7cb1471"), "address" : { "building" : "764", "coord" : [ -73.9880435, 40.7641423 ], "street" : "9 Avenue", "zipcode" : "10019" }, "borough" : "Manhattan", "cuisine" : "Afghan", "grades" : [ { "date" : ISODate("2014-12-30T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-10-10T00:00:00Z"), "grade" : "B", "score" : 19 }, { "date" : ISODate("2013-02-25T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-08-09T00:00:00Z"), "grade" : "C", "score" : 2 }, { "date" : ISODate("2012-02-16T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Afghan Kebab House #1", "restaurant\_id" : "40616799" } { "\_id" : ObjectId("617665b220a42092c7cb1994"), "address" : { "building" : "787", "coord" : [ -73.9880886, 40.7651331 ], "street" : "9 Avenue", "zipcode" : "10019" }, "borough" : "Manhattan", "cuisine" : "Afghan", "grades" : [ { "date" : ISODate("2014-07-22T00:00:00Z"), "grade" : "A", "score" : 3 }, { "date" : ISODate("2013-07-08T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-02-05T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2011-11-28T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Ariana Kebab House", "restaurant\_id" : "40868400" } { "\_id" : ObjectId("617665b220a42092c7cb1809"), "address" : { "building" : "14612", "coord" : [ -73.8057078, 40.6948408 ], "street" : "Liberty Avenue", "zipcode" : "11435" }, "borough" : "Queens", "cuisine" : "African", "grades" : [ { "date" : ISODate("2014-04-16T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2013-09-16T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2012-08-23T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-02-21T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-06-30T00:00:00Z"), "grade" : "B", "score" : 19 } ], "name" : "Africana Restaurant", "restaurant\_id" : "40798504" } { "\_id" : ObjectId("617665b220a42092c7cb1593"), "address" : { "building" : "195", "coord" : [ -73.9717845, 40.6897199 ], "street" : "Dekalb Avenue", "zipcode" : "11205" }, "borough" : "Brooklyn", "cuisine" : "African", "grades" : [ { "date" : ISODate("2014-08-18T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2014-01-13T00:00:00Z"), "grade" : "B", "score" : 19 }, { "date" : ISODate("2012-12-19T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-08-01T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-03-12T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-11-01T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Madiba", "restaurant\_id" : "40684161" } { "\_id" : ObjectId("617665b120a42092c7cb0c84"), "address" : { "building" : "2001", "coord" : [ -74.099018, 40.58116500000001 ], "street" : "Hylan Boulevard", "zipcode" : "10306" }, "borough" : "Staten Island", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-10-06T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2014-03- 20T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-09-26T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-04-01T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-03-05T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Colonnade Diner", "restaurant\_id" : "40368291" } { "\_id" : ObjectId("617665b120a42092c7cb0ca1"), "address" : { "building" : "372", "coord" : [ -74.1018239, 40.630788 ], "street" : "Forest Avenue", "zipcode" : "10301" }, "borough" : "Staten Island", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-03-08T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2013-09-17T00:00:00Z"), "grade" : "A", "score" : 2 }, { "date" : ISODate("2013-02-14T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-07-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-12-14T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-07-11T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Jody'S Club", "restaurant\_id" : "40369158" } { "\_id" : ObjectId("617665b120a42092c7cb0cdf"), "address" : { "building" : "1745", "coord" : [ -74.146976, 40.625178 ], "street" : "Forest Avenue", "zipcode" : "10303" }, "borough" : "Staten Island", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-11-15T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2014-06-24T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-01-08T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-12-07T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2012-06-23T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-01-24T00:00:00Z"), "grade" : "A", "score" : 9 } ], "name" : "Perkins Family Restaurant & Bakery", "restaurant\_id" : "40370910" } { "\_id" : ObjectId("617665b120a42092c7cb0cf0"), "address" : { "building" : "2055", "coord" : [ -74.1321, 40.61266000000001 ], "street" : "Victory Boulevard", "zipcode" : "10314" }, "borough" : "Staten Island", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-11-06T00:00:00Z"), "grade" : "B", "score" : 25 }, { "date" : ISODate("2014-05- 06T00:00:00Z"), "grade" : "B", "score" : 20 }, { "date" : ISODate("2013-01-26T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-12-17T00:00:00Z"), "grade" : "A", "score" : 7 } ], "name" : "Schaffer'S Tavern", "restaurant\_id" : "40371771" } { "\_id" : ObjectId("617665b120a42092c7cb0cf5"), "address" : { "building" : "275", "coord" : [ -74.1235473, 40.6215341 ], "street" : "Martling Ave", "zipcode" : "10314" }, "borough" : "Staten Island", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-04-09T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-01-16T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-01-06T00:00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Exclusive Catering", "restaurant\_id" : "40372016" } Type "it" for more

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

> db.addresses.find({"address.street":{$exists:true}}) { "\_id" : ObjectId("617665b120a42092c7cb0ba2"), "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("617665b120a42092c7cb0ba3"), "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("617665b120a42092c7cb0ba4"), "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("617665b120a42092c7cb0ba5"), "address" : { "building" : "2780", "coord" : [ -73.98241999999999, 40.579505 ], "street" : "Stillwell Avenue", "zipcode" : "11224" }, "borough" : "Brooklyn", "cuisine" : "American ", "grades" : [ { "date" : ISODate("2014-06-10T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-06-05T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-04-13T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-10-12T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Riviera Caterer", "restaurant\_id" : "40356018" }

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

> db.addresses.find({"address.coord":{$type:1}}) { "\_id" : ObjectId("617665b120a42092c7cb0ba2"), "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("617665b120a42092c7cb0ba3"), "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("617665b120a42092c7cb0ba4"), "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("617665b120a42092c7cb0bad"), "address" : { "building" : "7715", "coord" : [ -73.9973325, 40.61174889999999 ], "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 } ], "name" : "C & C Catering Service", "restaurant\_id" : "40357437" } { "\_id" : ObjectId("617665b120a42092c7cb0bae"), "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("2013-08-28T00:00:00Z"), "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" : { "\_id" : ObjectId("617665b120a42092c7cb0bb2"), "address" : { "building" : "265-15", "coord" : [ -73.7032601, 40.7386417 ], "street" : "Hillside Avenue", "zipcode" : "11004" }, "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "grades" : [ { "date" : ISODate("2014-10-28T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-09- 18T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-09-20T00:00:00Z"), "grade" : "A", "score" : 13 } ], "name" : "Carvel Ice Cream", "restaurant\_id" : "40361322" } { "\_id" : ObjectId("617665b120a42092c7cb0bb3"), "address" : { "building" : "6909", "coord" : [ -74.0259567, 40.6353674 ], "street" : "3 Avenue", "zipcode" : "11209" }, "borough" : "Brooklyn", "cuisine" : "Delicatessen", "grades" : [ { "date" : ISODate("2014-08-21T00:00:00Z"), "grade" : "A", "score" : 4 }, { "date" : ISODate("2014-03-05T00:00:00Z"), "grade" : "A", "score" : 3 }, { "date" : ISODate("2013-01-10T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Nordic Delicacies", "restaurant\_id" : "40361390" } { "\_id" : ObjectId("617665b120a42092c7cb0bb4"), "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 } ], "name" : "Glorious Food", "restaurant\_id" : "40361521" }

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("617665b120a42092c7cb0ba2"), "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("617665b120a42092c7cb0ba5"), "grades" : [ { "date" : ISODate("2014-06-10T00:00:00Z"), "grade" : "A", "score" : 5 }, { "date" : ISODate("2013-06-05T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-04-13T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-10-12T00:00:00Z"), "grade" : "A", "score" : 12 } ], "name" : "Riviera Caterer", "restaurant\_id" : "40356018" } { "\_id" : ObjectId("617665b120a42092c7cb0ba7"), "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("617665b120a42092c7cb0bb0"), "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" : "Seuda Foods", "restaurant\_id" : "40360045" } { "\_id" : ObjectId("617665b120a42092c7cb0bb6"), "grades" : [ { "date" : ISODate("2014-08-16T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-08-27T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2012-09-20T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2011-09-29T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Sal'S Deli", "restaurant\_id" : "40361618" } { "\_id" : ObjectId("617665b120a42092c7cb0bc4"), "grades" : [ { "date" : ISODate("2014-10-17T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2013-09-18T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-04-30T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-04-20T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2011-12-19T00:00:00Z"), "grade" : "A", "score" : 3 } ], "name" : "Olive'S", "restaurant\_id" : "40363151" } { "\_id" : ObjectId("617665b120a42092c7cb0bc8"), "grades" : [ { "date" : ISODate("2014-02-21T00:00:00Z"), "grade" : "A", "score" : 3 }, { "date" : ISODate("2013-09-13T00:00:00Z"), "grade" : "A", "score" : 3 }, { "date" : ISODate("2012-08-28T00:00:00Z"), "grade" : "A", "score" : 0 }, { "date" : ISODate("2011-09-13T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2011-05-03T00:00:00Z"), "grade" : "A", "score" : 5 } ], "name" : "Lexler Deli", "restaurant\_id" : "40363426" } { "\_id" : ObjectId("617665b120a42092c7cb0bcf"), "grades" : [ { "date" : ISODate("2014-02-05T00:00:00Z"), "grade" : "A", "score" : 0 }, { "date" : ISODate("2013-01-29T00:00:00Z"), "grade" : "A", "score" : 3 }, { "date" : ISODate("2011-12-08T00:00:00Z"), "grade" : "A", "score" : 10 } ], "name" : "Sonny'S Heros", "restaurant\_id" : "40363744" } { "\_id" : ObjectId("617665b120a42092c7cb0bd6"), "grades" : [ { "date" : ISODate("2014-11-18T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-11-07T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2013-04-24T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2012-03-20T00:00:00Z"), "grade" : "A", "score" : 5 } ], "name" : "Plaza Bagels & Deli", "restaurant\_id" : "40364286" } { "\_id" : ObjectId("617665b120a42092c7cb0bd9"), "grades" : [ { "date" : ISODate("2015-01-06T00:00:00Z"), "grade" : "A", "score" : 12 }, { "date" : ISODate("2014-07-15T00:00:00Z"), "grade" : "C", "score" : 48 }, { "date" : ISODate("2013-05-02T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2012-09-24T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2012-04-19T00:00:00Z"), "grade" : "A", "score" : 7 } ], "name" : "Texas Rotisserie", "restaurant\_id" : "40364304" }

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

> db.addresses.find({name:{$regex:"mon.\*",$options:"i"}},{"name":1,"borough":1,"address.coord":1,"cuisine":1}) { "\_id" : ObjectId("617665b120a42092c7cb0c36"), "address" : { "coord" : [ -73.98306099999999, 40.7441419 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Desmond'S Tavern" } { "\_id" : ObjectId("617665b120a42092c7cb0c3f"), "address" : { "coord" : [ -73.8221418, 40.7272376 ] }, "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Shimons Kosher Pizza" } { "\_id" : ObjectId("617665b120a42092c7cb0c4b"), "address" : { "coord" : [ -74.10465599999999, 40.58834 ] }, "borough" : "Staten Island", "cuisine" : "American ", "name" : "Richmond County Country Club" } { "\_id" : ObjectId("617665b120a42092c7cb0c76"), "address" : { "coord" : [ -73.9812843, 40.5947365 ] }, "borough" : "Brooklyn", "cuisine" : "Pizza/Italian", "name" : "Lb Spumoni Gardens" } { "\_id" : ObjectId("617665b120a42092c7cb0cc8"), "address" : { "coord" : [ -73.951199, 40.7166026 ] }, "borough" : "Brooklyn", "cuisine" : "Italian", "name" : "Bamonte'S Restaurant" } { "\_id" : ObjectId("617665b120a42092c7cb0cff"), "address" : { "coord" : [ -73.924072, 40.76108900000001 ] }, "borough" : "Queens", "cuisine" : "Greek", "name" : "Omonia Cafe" } { "\_id" : ObjectId("617665b120a42092c7cb0d4f"), "address" : { "coord" : [ -74.0023353, 40.7333573 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Manhattan Monster" } { "\_id" : ObjectId("617665b120a42092c7cb0d7c"), "address" : { "coord" : [ -74.001094, 40.729583 ] }, "borough" : "Manhattan", "cuisine" : "Italian", "name" : "Monte'S" } { "\_id" : ObjectId("617665b120a42092c7cb0d82"), "address" : { "coord" : [ -73.9901605, 40.7526176 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Delmonico'S Kitchen" } { "\_id" : ObjectId("617665b120a42092c7cb0d98"), "address" : { "coord" : [ -73.9979536, 40.6914024 ] }, "borough" : "Brooklyn", "cuisine" : "Bottled beverages, including water, sodas, juices, etc.", "name" : "Montero Bar & Grill" } { "\_id" : ObjectId("617665b120a42092c7cb0f23"), "address" : { "coord" : [ -73.9707505, 40.7635651 ] }, "borough" : "Manhattan", "cuisine" : "Delicatessen", "name" : "Delmonico Gourmet" } { "\_id" : ObjectId("617665b120a42092c7cb0f90"), "address" : { "coord" : [ -73.9760637, 40.7508686 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Delmonico Gourmet" } { "\_id" : ObjectId("617665b120a42092c7cb0fa4"), "address" : { "coord" : [ -73.9705633, 40.7605759 ] }, "borough" : "Manhattan", "cuisine" : "Italian", "name" : "Montebello Restaurant" } { "\_id" : ObjectId("617665b120a42092c7cb103c"), "address" : { "coord" : [ -74.1914658, 40.55274360000001 ] }, "borough" : "Staten Island", "cuisine" : "Italian", "name" : "Villa Monte Pizzeria" }

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

> db.addresses.find({name:{$regex:/^Mad/i}},{"name":1,"borough":1,"address.coord":1,"cuisine":1}) { "\_id" : ObjectId("617665b120a42092c7cb10de"), "address" : { "coord" : [ -73.9860597, 40.7431194 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Madison Square" } { "\_id" : ObjectId("617665b120a42092c7cb11ac"), "address" : { "coord" : [ -73.98302199999999, 40.742313 ] }, "borough" : "Manhattan", "cuisine" : "Indian", "name" : "Madras Mahal" } { "\_id" : ObjectId("617665b220a42092c7cb145a"), "address" : { "coord" : [ -74.000002, 40.72735 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Madame X" } { "\_id" : ObjectId("617665b220a42092c7cb150a"), "address" : { "coord" : [ -73.98171959999999, 40.7499406 ] }, "borough" : "Manhattan", "cuisine" : "French", "name" : "Madison Bistro" } { "\_id" : ObjectId("617665b220a42092c7cb1593"), "address" : { "coord" : [ -73.9717845, 40.6897199 ] }, "borough" : "Brooklyn", "cuisine" : "African", "name" : "Madiba" } { "\_id" : ObjectId("617665b220a42092c7cb1898"), "address" : { "coord" : [ -73.9040753, 40.9069011 ] }, "borough" : "Bronx", "cuisine" : "Italian", "name" : "Madison'S" } { "\_id" : ObjectId("617665b220a42092c7cb1916"), "address" : { "coord" : [ -73.9886598, 40.7565811 ] }, "borough" : "Manhattan", "cuisine" : "Hotdogs", "name" : "Madame Tussaud'S" } { "\_id" : ObjectId("617665b220a42092c7cb194e"), "address" : { "coord" : [ -73.95623719999999, 40.7761697 ] }, "borough" : "Manhattan", "cuisine" : "American ", "name" : "Mad River Bar & Grille" }