# **MONGODB: Assignment3**

# **Exercises:**

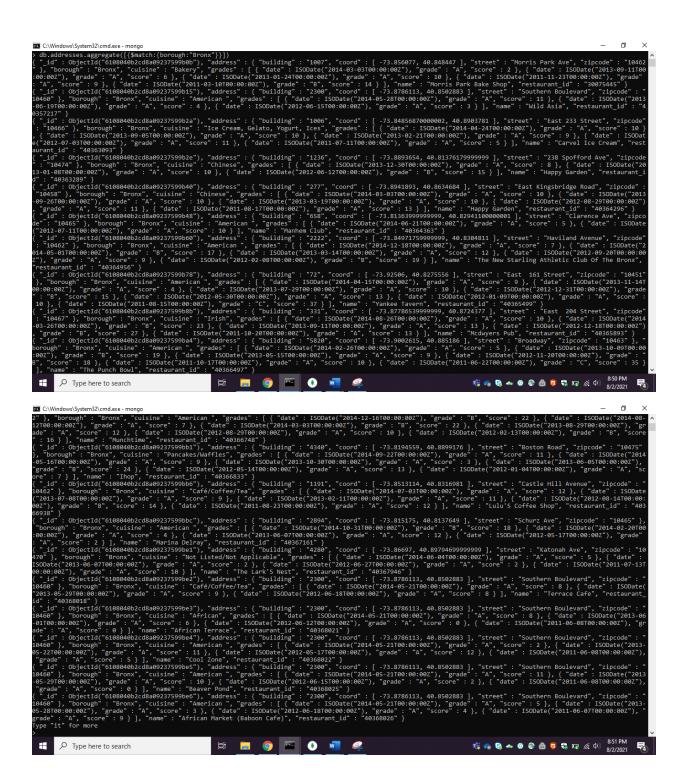
1.

2.

```
or do. addresses.aggregate(($project:(restaurant id:1,name:1,borough:1,cuisine:1)))
("id": ObjectId("ol88048b)zcd8a90337599b80"), "borough": "Brown, "cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant id": "30875445" }
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db.addresses.aggregate(($project:(restaurant_id::,name::,borough::,cuisine::,,id:0)))
( "borough": "Bronx", "cuisine": "Bakery", "name": "Morris Park Bake Shop", "restaurant_id": "30075445")
( "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy'S", "restaurant_id": "30112340")
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( "borough": "Brooklyn", "cuisine": "American ", name": "Tov Kosher Kitchen", "restaurant_id": "40356618")
( "borough": "Queens", "cuisine": "Pewish/Kosher", "name": "Tov Kosher Kitchen", "restaurant_id": "40356668")
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( "borough": "Brooklyn", "cuisine": "Pewish/Kosher", "name": "Kesher Island", "restaurant_id": "4035642")
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( "borough": "Brooklyn", "cuisine": "American ", "name": "Wild Asia", "restaurant_id": "40357217")
( "borough": "Brooklyn", "cuisine": "American ", "name": "Naj Alai", "restaurant_id": "40357317")
( "borough": "Brooklyn", "cuisine": "American ", "name": "I East 66Th Street Kitchen", "restaurant_id": "40357437")
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( "borough": "Brooklyn", "cuisine": "Tice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360966")
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\( \text{db.} \text{addresses.aggregate} \text{[\text{\text{borough}^{\text{match}};\text{\text{\text{borough}^{\text{borough}^{\text{borough}};\text{\text{\text{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{borough}^{\text{boroug
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db.addresses.find(("grades.score":{§gr:90}))

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"], "borough": "Manhattan", "cuisine": "American ", "grades": [ { "date": ISO0ate("2014-08-22100:00:002"), "grade": "A", "score": 11 }, { "date": ISO0ate("2013-09-25108:00:002"), "grade": "A", "score": 11 }, { "date": ISO0ate("2013-09-25108:00:002"), "grade": "A", "score": 11 }, { "date": ISO0ate("2013-04-08100:0020"), "grade": "B", "score": 11 }, { "date": ISO0ate("2013-04-08100:0020"), "grade": "A", "score": 11 }, { "date": ISO0ate("2011-01-15100:00:0020"), "grade": "A", "score": 11 }, { "date": ISO0ate("2011-01-1700:00:0020"), "grade": "A", "score": 11 }, { "date": ISO0ate("2011-01-1700:00:0020"), "grade": "A", "score": 13 }], "name": "Nurals On 54/Randolphs's", "restaurant_id": "40372466" }, "40372466" }, "Inorough": "Ranhattan", "cuisine": "Indian", "grades": "{ "date": ISO0ate("2013-04-0140:"), "grade": "A", "score": 5 }, "date": ISO0ate("2014-01-09-15100:00:002"), "grade": "A", "score": 5 }, "date": ISO0ate("2014-01-09-15100:00:002"), "grade": "A", "score": 5 }, "date": ISO0ate("2014-01-09-15100:00:002"), "grade": "A", "score": 5 }, "date": ISO0ate("2011-01-00:00:002"), "grade": "A", "score": 12 }, "date": ISO0ate("2011-11-03100:00:002"), "grade": "A", "score": 9 }, "date": ISO0ate("2011-11-03100:00:002"), "grade": "A", "score": 12 }, "date": ISO0ate("2011-11-03100:00:002"), "grade": "A", "score": 19 }, "date": ISO0ate("2011-11-03100:00:002"), "grade": "A", "score": 19 }, "date": ISO0ate("2012-10-01100:00:002"), "grade": "A", "score": 19 }, "date": ISO0ate("2013-03-22100:00:002"), "grade": "A", "score": 11 }, "date": ISO0ate("2
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### 9.

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bh.addresses.find({$and:[{"grades.score":{$gt:80}},{"grades.score":{$lt:100}}]})

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]", "borough": "Manhattan", "cuisine": 'American ", "grades': [ "date": ISODate("2014-08-22700:00:002"), "grade": "A", "score": 11 }, { "date": ISODate("2014-08-22700:00:002"), "grade": "A", "score": 11 }, { "date": ISODate("2014-09-22700:00:002"), "grade": "A", "score": 11 }, { "date": ISODate("2013-04-08100:00:002"), "grade": "A", "score": 13 }, "name": "Nurals On 54/Randolphs's", "restaurant_id": "40372466"
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d b.addresses.find(("address.coord":{§1t:-95.75168})}
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\(\sigma\) db.addresses.find (\{\text{ "cuisine" : {\text{ sine : "American "}, \text{ "grades.score" : {\text{ billing" : "345", "coord" : [-3.9864626, 49.2565739], \text{ "id" : colopiectId("ciba80480b2Cd88049237599486"), \text{ "addres: : {\text{ "coord" : [-3.9864626, 49.2565739], \text{ "store" : 5}, \text{ "date" : ISODate("2014-01-140)}, \text{ "borough" : "A", "score" : 2}, \text{ "date" : ISODate("2013-08-34760-08-082"), \text{ "grade" : "A", "score" : 12}, \text{ "date" : ISODate("2013-08-34760-08-082"), \text{ "grade" : "A", "score" : 2}, \text{ "date" : ISODate("2012-10-01100-00-080-082"), \text{ "grade" : "A", "score" : 2}, \text{ "date" : ISODate("2012-10-01100-00-082"), \text{ "grade" : "A", "score" : 9}, \text{ "date" : ISODate("2012-04-06100-00-082"), \text{ "grade" : "A", "score" : 9}, \text{ "date" : ISODate("2012-04-06100-00-082"), \text{ "grade" : "A", "score" : 9}, \text{ "date" : ISODate("2012-04-06100-00-082"), \text{ "grade" : "A", "score" : 9}, \text{ "date" : ISODate("2012-04-06100-00-082"), \text{ "grade" : "C", "score" : 4}, \text{ "billing" : "aid" : "Good" : [-3.984758, 40, 7457939], \text{ "store" : 31}, \text{ "date" : ISODate("2013-05-2100-00-00-002"), \text{ "grade" : "C", "score" : 31}, \text{ "date" : ISODate("2013-05-22100-00-00-002"), \text{ "grade" : "C", "score" : 32}, \text{ "date" : ISODate("2013-05-22100-00-00-002"), \text{ "grade" : "C", "score" : 32}, \text{ "date" : ISODate("2013-05-22100-00-00-002"), \text{ "grade" : "Bella Napoli", "restaurant id" : "40393488" \text{ "date" : ISODate("2013-06-2016-00-00-002"), \text{ "grade" : "C", "score" : 32}, \text{ "date" : ISODate("2013-06-00-00-00-002"), \text{ "grade" : "Bella Napoli", "grade" : "latin (Cuban, Dominican, Puerto Rican, South & Central American)", \text{ "grades" : [ "date" : ISODate("2013-06-200-00-002"), \text{ "grade" : "B", "score" : 6}, \text{ "date" : ISODate("2013-06-200-00-002"), \text{ "grade" : "B", "score" : 14}, \text{ "date" : ISODate("2011-06-200-0002"), \text{ "grade" : "B", "score" : 14}, \t
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> db.addresses.find( {name: /^Wil/}, { "restaurant_id" : 1, "name":1,"borough":1, "cuisine" :1 } );
{ ".id" : ObjectId("6108040b2cd8a09237599b12"), "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "_id" : ObjectId("6108040b2cd8a09237599b15"), "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "_id" : ObjectId("6108040c2cd8a0923759a91a"), "borough" : "Bronx", "cuisine" : "Pizza", "name" : "Wilbel Pizza", "restaurant_id" : "40871979" }
>
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#### 16.

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\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{
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db.addresses.find( {"borough":{\( \) int :\( \) istaten \) island\( \) "Queens\( \) "Brooklym\( \) \) }\) {\( \) "restaurant_id\( \) : 1\) . \( \) "name\( \) :\( \) DolyectId\( \) ("id\( \) :\( \) DolyectId\( \) ("id\
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o'db addresses find( {Sor: [ {name: / Will}, { "$and": [ {"cuisine": {$ne: "American"}}, {"cuisine": {$ne: "Chinees"}} ]} ], {"restaurant_id": 1, "name":1, "borough": 1, "cuisine": 1}; 1, "name":1, "borough": 1, "cuisine": 1}; 1, "borough": 1, "cuisine": 1}; 1, "borough": 1, "cuisine": 1}; 1, "borough": 1, "cuisine": 1, "aname": "Morris Park Bake Shop", "restaurant_id": "30075445" } { ".id": 0bjectId("6108040b2cd8a09237599b06"), "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy's", "restaurant_id": "30112340" } { ".id": 0bjectId("6108040b2cd8a09237599b06"), "borough": "Manhattan", "cuisine": "Irish'n, "name": "Dj Reynolds Pub And Restaurant", "restaurant_id": "30191841" } { ".id": 0bjectId("6108040b2cd8a09237599b1"), "borough": "Gueens", "cuisine": "Jewish/Kosher", "name": "To Kosher Kitchen", "restaurant_id": "40356088" } { ".id": 0bjectId("6108040b2cd8a09237599b1"), "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Kosher Island", "restaurant_id": "40356081" } { ".id": 0bjectId("6108040b2cd8a09237599b12"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "4035642" } { ".id": 0bjectId("6108040b2cd8a09237599b15"), "borough": "Brooklyn", "cuisine": "Chinese", "name": "Name": "Name": "Taste The Tropics Ice Cream", "restaurant_id": "4035642" } { ".id": 0bjectId("6108040b2cd8a09237599b17"), "borough": "Brooklyn", "cuisine": "Chinese", "name": "Name Nay May Kitchen", "restaurant_id": "4035642" } { ".id": 0bjectId("6108040b2cd8a09237599b17"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360045" } { ".id": 0bjectId("6108040b2cd8a09237599b10"), "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "4036030", "Cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360322" } { ".id": 0bjectId("6108040b2cd8a09237599b16"), "borough": "Brooklyn", "cuisine": "Ic
```

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db.addresses.find( ( "grades.date": ISODate("2014-08-11T00:00:002"), "grades.grade": "A", "grades.score": 11 ), ("nestaurant.id": 1."name":1."grades":1) );
("id": ObjectId(5i0808408202375990809'), "grades": [ 'date": ISODate("2013-07-2270
0*060607'), "grade": "A", "score": 12 ), ("date": ISODate("2013-07-2270
0*060607'), "grade": "A", "score": 12 ), ("date": ISODate("2013-07-2270
0*060607'), "grade": "A", "score": 11 ), ("date": ISODate("2013-07-2070
0*07070**), "grade": "A", "score": 11 ), ("date": ISODate("2013-07-2070
0*07070**), "grade": "A", "score": 12 ), ("date": ISODate("2013-07-2070
0*07070**), "grade": "A", "score": 12 ), ("date": ISODate("2013-12-1070
0*0707070**), "grade": "A", "score": 12 ), ("date": ISODate("2013-12-1070
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```

#### 23.

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> 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("6108040b2cd8a0923759a136"), "grades": [ { "date" : ISODate("2015-01-12T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2014-08-11T0 0:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2013-02-07T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-04-30T00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-04-30T00:00Z"), "grade" : "A", "score" : 11 } ], "name" : "Club Macanudo (Cigar Bar)", "restaurant_id" : "40526406" }
```

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> db.addresses.find( { "address.coord.1": {$gt : 42, $lte : 52} }, {"restaurant_id" : 1,"name":1,"address":1,"coord":1} );
{ "_id" : ObjectId("6108040b2cd8a09237599dad"), "address" : { "building" : "47", "coord" : [ -78.877224, 42.8954619999999] , "street" : "Broadway @ Trinity Pl", "zipcode" : "10006" }, "name" : "T.G.I. Friday'S", "restaurant_id" : "40387990" }
{ "_id" : ObjectId("6108040b2cd8a09237599dd9"), "address" : { "building" : "1", "coord" : [ -0.7119979, 51.6514664], "street" : "Pennplaza E, Penn Sta", "zipcode" : "1
8001" }, "name" : "T.G.I. Friday'S", "restaurant_id" : "40388936" }
{ "_id" : ObjectId("6108040b2cd8a0923759a032"), "address" : { "building" : "3000", "coord" : [ -87.86567699999999, 42.61150920000001], "street" : "47 Avenue", "zipcode
" : "11101" }, "name" : "Di Luvio's Deli', "restaurant_id" : "404022484 }
{ "_id" : ObjectId("6108040b2cd8a0923759a026"), "address" : { "building" : "21972199", "coord" : [ -78.589606, 42.8912372], "street" : "Broadway", "zipcode" : "10024"
}, "name" : "La Caridad 78", "restaurant_id" : "40568285" }
{ "_id" : ObjectId("61080402cd8a0923759a0939"), "address" : { "building" : "7981", "coord" : [ -84.9751215, 45.4713351], "street" : "Hoyt Street", "zipcode" : "11201"
}, "name" : "Bijan'S", "restaurant_id" : "40876618" }
{ "_id" : ObjectId("61080402cd8a0923759a044"), "address" : { "building" : "0", "coord" : [ -88.0778799, 42.4154769], "street" : "& Grand Central", "zipcode" : "10017"
}, "name" : "Hyatt, Ny Central/Room Service", "restaurant_id" : "4087243" }
{ "_id" : ObjectId("61080402cd8a0923759a064"), "address" : { "building" : "60", "coord" : [ -111.9975205, 42.0970258], "street" : "West Side Highway", "zipcode" : "10017"
}, "name" : "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id" : "40882356"}
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db.addresses.find( "address.coord" ($type: 1) );

("id': Objectid("cideadey2da80927590ebb"), "address"; ("bullding": "1007", "coord": [-73.856077, 40.848447], "street": "Morris Park Ave", "zipcode": "10462"), "borough: "Bronx, "cuisine": "8akery, "grades : [("date": ISODate("2014-03-03160:08062"), "grade": "A", "score": 2); ("date": ISODate("2013-03-12760:08062"), "grade": "A", "score": 2); ("date": ISODate("2013-03-12760:08062"), "grade": "A", "score": 2); ("date": ISODate("2013-03-12760:08062"), "grade": "A", "score": 9); ("date": ISODate("2013-03-12760:08062"), "grade": "A", "score": 12); ("date": ISODate("2013-03-12760:08062"), "grade": "A", "score": 12); ("date": ISODate("2013-03-12760:08062"), "grade": "A", "score": 12); ("date": ISODate("2013-03-12760:08060), "grade": "A", "score": 12); ("date": ISODate(
```

```
Deb.addresses.find( [ name : ( $regex : "mon.*", $options: "i" ) ), ( ".id" : ObjectId( "ol08040bzcd8a09237509b0f"), "address" : [ "coord" : [ -73.93360090990999, 40.7441419 ]), "borough" : "Manhattan", "cuisine" : "American ", "name" : "Desmond's Invernal " inver
```