

Q1

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find()
{ "_id" : ObjectId("60784955905d6c27ace348dd"), "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("60784955905d6c27ace348e8"), "address" : { "building" : "7715",
"coord" : [ -73.9973325, 40.611748899999999 ], "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("60784955905d6c27ace348fa"), "address" : { "building" : "195",
"coord" : [ -73.9246028, 40.6522396 ], "street" : "East 56 Street", "zipcode" : "11203" },
"borough" : "Brooklyn", "cuisine" : "Caribbean", "grades" : [ { "date" : ISODate("2014-05-13T00:00:00Z"),
"grade" : "A", "score" : 2 }, { "date" : ISODate("2013-05-08T00:00:00Z"), "grade" : "A",
"score" : 7 }, { "date" : ISODate("2012-09-22T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2011-11-23T00:00:00Z"),
"grade" : "A", "score" : 9 } ], "name" : "East 56 Caribbean", "restaurant_id" : "40357437" }
```

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.aggregate([{$project:{$restaurant_id:1,name:1,borough:1,cuisine:1}}]).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace348dd"),
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "name" : "Morris Park Bake Shop",
  "restaurant_id" : "30075445"
}
{
  "_id" : ObjectId("60784955905d6c27ace348de"),
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "Wendy'S",
  "restaurant_id" : "30112340"
}
{
  "_id" : ObjectId("60784955905d6c27ace348df"),
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "name" : "Dj Reynolds Pub And Restaurant",
  "restaurant_id" : "30191841"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e0"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "Riviera Caterer",
  "restaurant_id" : "40356018"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e1"),
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e2"),
  "borough" : "Queens",
  "cuisine" : "American",
  "name" : "Brunos On The Boulevard",
  "restaurant_id" : "40356151"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e3"),
  "borough" : "Staten Island",
  "cuisine" : "Jewish/Kosher",
  "name" : "Kosher Island",
  "restaurant_id" : "40356442"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e4"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356403"
}

```

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.aggregate([{$project:{$restaurant_id:1,name:1,borough:1,cuisine:1,_id:0}}]).pretty()
{
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "name" : "Morris Park Bake Shop",
  "restaurant_id" : "30075445"
}
{
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "Wendy's",
  "restaurant_id" : "30112340"
}
{
  "borough" : "Manhattan",
  "cuisine" : "Irish",
  "name" : "Dj Reynolds Pub And Restaurant",
  "restaurant_id" : "30191841"
}
{
  "borough" : "Brooklyn",
  "cuisine" : "American ",
  "name" : "Riviera Caterer",
  "restaurant_id" : "40356018"
}
{
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
}
{
  "borough" : "Queens",
  "cuisine" : "American ",
  "name" : "Brunos On The Boulevard",
  "restaurant_id" : "40356151"
}
{
  "borough" : "Staten Island",
  "cuisine" : "Jewish/Kosher",
  "name" : "Kosher Island",
  "restaurant_id" : "40356442"
}
{
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken's Fine Food",
  "restaurant_id" : "40356483"
}
{
  "borough" : "Brooklyn",
  "cuisine" : "American ",
  "name" : "Regina Caterers",
  "restaurant_id" : "40356649"
}
```

Q4

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<>,<"restaurant_id" : 1,"name":1,"borough":1,"address.zipcode" :1,"_id":0>>).pretty()
{
  "address" : {
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "name" : "Morris Park Bake Shop",
  "restaurant_id" : "30075445"
}
{
  "address" : {
    "zipcode" : "11214"
  },
  "borough" : "Brooklyn",
  "name" : "C & C Catering Service",
  "restaurant_id" : "40357437"
}
{
  "address" : {
    "zipcode" : "11203"
  },
  "borough" : "Brooklyn",
  "name" : "Shashemene Int'L Restaura",
  "restaurant_id" : "40362869"
}
{
  "address" : {
    "zipcode" : "11218"
  },
  "borough" : "Brooklyn",
  "name" : "Carvel Ice Crean",
  "restaurant_id" : "40360076"
}
{
  "address" : {
    "zipcode" : "10003"
  },
  "borough" : "Manhattan",
  "name" : "Bully'S Deli",
  "restaurant_id" : "40361708"
}
{
  "address" : {
    "zipcode" : "11368"
  },
  "borough" : "Queens",
  "name" : "Ho Mei Restaurant",
  "restaurant_id" : "40362432"
}
{
  "address" : {
    "zipcode" : "10012"
  },
  "borough" : "Manhattan",
  "name" : "Olive'S",
  "restaurant_id" : "40363151"
}
```

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.aggregate([{$match
:{$borough:"Bronx"}},{$limit:5}]).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace348dd"),
  "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("60784955905d6c27ace348e7"),
  "address" : {
    "building" : "2300",
    "coord" : [
      -73.8706113,
      40.8502883
    ],
    "street" : "Southern Boulevard",
    "zipcode" : "10460"
  },
  "borough" : "Bronx",

```

Q6



A screenshot of a Windows command prompt window. The title bar shows the path `C:\Windows\System32\cmd.exe` followed by the command `mongo "mongodb+srv://cluster0.i2q1n.mon..."`. The window content shows the MongoDB shell prompt `MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY>` and the command `db.addresses.aggregate([{$match: {borough: "Bronx"}}]).pretty()` entered. The background of the command prompt is black with white text.

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.aggregate([{$match
: {borough: "Bronx"}}]).pretty()
```


Q7

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.aggregate([{$match
:{$borough:"Bronx"}},{$skip:5},{$limit:5}]).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace3491a"),
  "address" : {
    "building" : "658",
    "coord" : [
      -73.81363999999999,
      40.829411000000001
    ],
    "street" : "Clarence Ave",
    "zipcode" : "10465"
  },
  "borough" : "Bronx",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-06-21T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2012-07-11T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    }
  ],
  "name" : "Manhen Club",
  "restaurant_id" : "40364363"
},
{
  "_id" : ObjectId("60784955905d6c27ace34932"),
  "address" : {
    "building" : "2222",
    "coord" : [
      -73.84971759999999,
      40.8304811
    ],
    "street" : "Haviland Avenue",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-12-18T00:00:00Z"),
      "grade" : "A",
      "score" : 7
    },
    {
      "date" : ISODate("2014-05-01T00:00:00Z"),
      "grade" : "B",
      "score" : 17
    },
    {
      "date" : ISODate("2013-03-14T00:00:00Z"),
      "grade" : "A",

```

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.aggregate([{$match
:{"grades.score":{$gt:90}}]).pretty()
{
  "_id" : ObjectId<"60784955905d6c27ace34a3b">,
  "address" : {
    "building" : "65",
    "coord" : [
      -73.9782725,
      40.7624022
    ],
    "street" : "West 54 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate<"2014-08-22T00:00:00Z">,
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate<"2014-03-28T00:00:00Z">,
      "grade" : "C",
      "score" : 131
    },
    {
      "date" : ISODate<"2013-09-25T00:00:00Z">,
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate<"2013-04-00T00:00:00Z">,
      "grade" : "B",
      "score" : 25
    },
    {
      "date" : ISODate<"2012-10-15T00:00:00Z">,
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate<"2011-10-19T00:00:00Z">,
      "grade" : "A",
      "score" : 13
    }
  ],
  "name" : "Murals On 54/Randolphs'S",
  "restaurant_id" : "40372466"
},
{
  "_id" : ObjectId<"60784955905d6c27ace34adc">,
  "address" : {
    "building" : "345",
    "coord" : [
      -73.9864626,
      40.7266739
    ]
  }
}

```



```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<grades:<$elemMatch:<"score":<{$gt:80,$lt:100}>>>>>).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace34adc"),
  "address" : {
    "building" : "345",
    "coord" : [
      -73.9864626,
      40.7266739
    ],
    "street" : "East 6 Street",
    "zipcode" : "10003"
  },
  "borough" : "Manhattan",
  "cuisine" : "Indian",
  "grades" : [
    {
      "date" : ISODate("2014-09-15T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2014-01-14T00:00:00Z"),
      "grade" : "A",
      "score" : 8
    },
    {
      "date" : ISODate("2013-05-30T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    },
    {
      "date" : ISODate("2013-04-24T00:00:00Z"),
      "grade" : "P",
      "score" : 2
    },
    {
      "date" : ISODate("2012-10-01T00:00:00Z"),
      "grade" : "A",
      "score" : 9
    },
    {
      "date" : ISODate("2012-04-06T00:00:00Z"),
      "grade" : "C",
      "score" : 92
    },
    {
      "date" : ISODate("2011-11-03T00:00:00Z"),
      "grade" : "C",
      "score" : 41
    }
  ],
  "name" : "Gandhi",
  "restaurant_id" : "40381295"
}
{
  "_id" : ObjectId("60784955905d6c27ace34c3f"),

```

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"address.coord":<{$lt:-95.754168}>>>).pretty()
{
  "_id" : ObjectId<"60784956905d6c27ace34f25">,
  "address" : {
    "building" : "3707",
    "coord" : [
      -101.8945214,
      33.5197474
    ],
    "street" : "82 Street",
    "zipcode" : "11372"
  },
  "borough" : "Queens",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate<"2014-06-04T00:00:00Z">,
      "grade" : "A",
      "score" : 12
    },
    {
      "date" : ISODate<"2013-11-07T00:00:00Z">,
      "grade" : "B",
      "score" : 19
    },
    {
      "date" : ISODate<"2013-05-17T00:00:00Z">,
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate<"2012-08-29T00:00:00Z">,
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate<"2012-04-03T00:00:00Z">,
      "grade" : "A",
      "score" : 12
    },
    {
      "date" : ISODate<"2011-11-16T00:00:00Z">,
      "grade" : "A",
      "score" : 7
    }
  ],
  "name" : "Burger King",
  "restaurant_id" : "40534067"
},
{
  "_id" : ObjectId<"60784957905d6c27ace35290">,
  "address" : {
    "building" : "15259",
    "coord" : [
      -119.6368672,
      36.2504996
    ]
  }
}

```

Q11

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<$and:[<"cuis
ine":<$ne:"American">>,<"grades.score":<$gt:70>>,<"address.coord":<$lt:-65.75416
8>>]>>).pretty<>_
```

Q12

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"cuisine":<$
ne:"American">,"grades.score":<$gt:70>,"address.coord":<$lt:-65.754168>>>).pretty
()
```

Q13

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"cuisine":<$ne:"American">,"grades.grade":"A","borough":<$ne:"Brooklyn">>>).sort(<<"cuisine":-1>>).pretty()
```



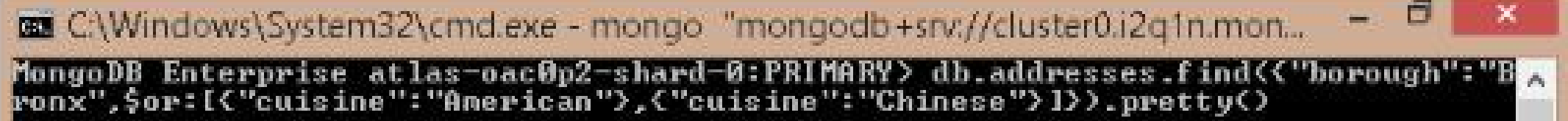
```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<name:/^Wil/
<"restaurant_id":1,"name":1,"borough":1,"cuisine":1>).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace348e4"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken'S Fine Food",
  "restaurant_id" : "40356483"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e7"),
  "borough" : "Bronx",
  "cuisine" : "American ",
  "name" : "Wild Asia",
  "restaurant_id" : "40357217"
}
{
  "_id" : ObjectId("60784958905d6c27ace356ec"),
  "borough" : "Bronx",
  "cuisine" : "Pizza",
  "name" : "Wilbel Pizza",
  "restaurant_id" : "40871979"
}
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY>
```

Q15

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<name:/ces$/
,<{"restaurant_id":1,"name":1,"borough":1,"cuisine":1}>>).pretty()
{
  "_id" : ObjectId("60784956905d6c27ace34e2f"),
  "borough" : "Queens",
  "cuisine" : "American ",
  "name" : "S.M.R Restaurant Services",
  "restaurant_id" : "40403857"
}
{
  "_id" : ObjectId("60784956905d6c27ace34d70"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Pieces",
  "restaurant_id" : "40399910"
}
{
  "_id" : ObjectId("60784956905d6c27ace34e35"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Good Shepherd Services",
  "restaurant_id" : "40403989"
}
{
  "_id" : ObjectId("60784957905d6c27ace352e8"),
  "borough" : "Queens",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "name" : "The Ice Box-Ralph's Famous Italian Ices",
  "restaurant_id" : "40690899"
}
{
  "_id" : ObjectId("60784958905d6c27ace354ea"),
  "borough" : "Brooklyn",
  "cuisine" : "Jewish/Kosher",
  "name" : "Alices",
  "restaurant_id" : "40702042"
}
{
  "_id" : ObjectId("60784950905d6c27ace35706"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Re: Sources",
  "restaurant_id" : "40876068"
}
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> _
```

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<name:/.*Reg.
*/>>,<<"restaurant_id":1,"name":1,"borough":1,"cuisine":1>>).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace349e2"),
  "borough" : "Manhattan",
  "cuisine" : "Café/Coffee/Tea",
  "name" : "Caffe Reggio",
  "restaurant_id" : "40369418"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e5"),
  "borough" : "Brooklyn",
  "cuisine" : "American ",
  "name" : "Regina Caterers",
  "restaurant_id" : "40356649"
}
{
  "_id" : ObjectId("60784955905d6c27ace34af1"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Regency Hotel",
  "restaurant_id" : "40382679"
}
{
  "_id" : ObjectId("60784956905d6c27ace34e0e"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Regency Whist Club",
  "restaurant_id" : "40402377"
}
{
  "_id" : ObjectId("60784956905d6c27ace34ef1"),
  "borough" : "Queens",
  "cuisine" : "American ",
  "name" : "Rego Park Cafe",
  "restaurant_id" : "40523342"
}
{
  "_id" : ObjectId("60784958905d6c27ace3555f"),
  "borough" : "Queens",
  "cuisine" : "Pizza",
  "name" : "Regina Pizza",
  "restaurant_id" : "40801325"
}
{
  "_id" : ObjectId("60784958905d6c27ace35776"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Regal Entertainment Group",
  "restaurant_id" : "40891782"
}
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> _
```

Q17



A screenshot of a Windows command prompt window titled "C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...". The prompt shows the MongoDB shell interface with the text "MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY>". The command entered is `db.addresses.find(<<'borough': 'Bronx', $or: [<'cuisine': 'American'>, <'cuisine': 'Chinese'>]>>).pretty()`. The command is partially cut off on the right side of the image.

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<'borough': 'B
ronx', $or: [<'cuisine': 'American'>, <'cuisine': 'Chinese'>]>>).pretty()
```

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find( <"borough" :
<$in : ["Staten Island", "Queens", "Bronx", "Brooklyn"]>>, <"restaurant_id" : 1, "n
ame":1, "borough":1, "cuisine" :1 >>).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace348dd"),
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "name" : "Morris Park Bake Shop",
  "restaurant_id" : "30075445"
}
{
  "_id" : ObjectId("60784955905d6c27ace348e8"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "C & C Catering Service",
  "restaurant_id" : "40357437"
}
{
  "_id" : ObjectId("60784955905d6c27ace348fa"),
  "borough" : "Brooklyn",
  "cuisine" : "Caribbean",
  "name" : "Shashemene Int'L Restaura",
  "restaurant_id" : "40362869"
}
{
  "_id" : ObjectId("60784955905d6c27ace348ec"),
  "borough" : "Brooklyn",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "name" : "Carvel Ice Cream",
  "restaurant_id" : "40360076"
}
{
  "_id" : ObjectId("60784955905d6c27ace348f8"),
  "borough" : "Queens",
  "cuisine" : "Chinese",
  "name" : "Ho Mei Restaurant",
  "restaurant_id" : "40362432"
}
{
  "_id" : ObjectId("60784955905d6c27ace3491a"),
  "borough" : "Bronx",
  "cuisine" : "American",
  "name" : "Manhen Club",
  "restaurant_id" : "40364363"
}
{
  "_id" : ObjectId("60784955905d6c27ace3496e"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "Three Star Restaurant",
  "restaurant_id" : "40366361"
}
{
  "_id" : ObjectId("60784955905d6c27ace3497a"),
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Shinons Kosher Pizza",
}

```


Q19

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find( { "borough" :
<$nin :["Staten Island","Queens","Bronx","Brooklyn"]> , < "restaurant_id" : 1, "
name":1,"borough":1, "cuisine" :1 } > ).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace348f2"),
  "borough" : "Manhattan",
  "cuisine" : "Delicatessen",
  "name" : "Bully'S Deli",
  "restaurant_id" : "40361700"
}
{
  "_id" : ObjectId("60784955905d6c27ace348ff"),
  "borough" : "Manhattan",
  "cuisine" : "Bakery",
  "name" : "Olive'S",
  "restaurant_id" : "40363151"
}
{
  "_id" : ObjectId("60784955905d6c27ace34922"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "7B Bar",
  "restaurant_id" : "40364518"
}
{
  "_id" : ObjectId("60784955905d6c27ace34956"),
  "borough" : "Manhattan",
  "cuisine" : "Italian",
  "name" : "Barbetta Restaurant",
  "restaurant_id" : "40365726"
}
{
  "_id" : ObjectId("60784955905d6c27ace349bd"),
  "borough" : "Manhattan",
  "cuisine" : "Seafood",
  "name" : "Oyster Bar",
  "restaurant_id" : "40368223"
}
{
  "_id" : ObjectId("60784955905d6c27ace349c7"),
  "borough" : "Manhattan",
  "cuisine" : "Steak",
  "name" : "Sammy'S Steakhouse",
  "restaurant_id" : "40368552"
}
{
  "_id" : ObjectId("60784955905d6c27ace349d3"),
  "borough" : "Manhattan",
  "cuisine" : "French",
  "name" : "La Mangeroire",
  "restaurant_id" : "40368971"
}
{
  "_id" : ObjectId("60784955905d6c27ace349d6"),
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Palm Too",
}
```

Q20

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find( ("grades.sco
re" : < $not: < $gt : 10> > ), < "restaurant_id" : 1, "name":1,"borough":1, "cu
isine" :1 > ).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace348e8"),
  "borough" : "Brooklyn",
  "cuisine" : "American ",
  "name" : "C & C Catering Service",
  "restaurant_id" : "40357437"
}
{
  "_id" : ObjectId("60784955905d6c27ace3491a"),
  "borough" : "Bronx",
  "cuisine" : "American ",
  "name" : "Manhem Club",
  "restaurant_id" : "40364363"
}
{
  "_id" : ObjectId("60784955905d6c27ace349f1"),
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "White Castle",
  "restaurant_id" : "40369676"
}
{
  "_id" : ObjectId("60784955905d6c27ace34a3d"),
  "borough" : "Manhattan",
  "cuisine" : "Pizza",
  "name" : "Caruso Pizza #2",
  "restaurant_id" : "40372523"
}
{
  "_id" : ObjectId("60784955905d6c27ace34acd"),
  "borough" : "Manhattan",
  "cuisine" : "Mexican",
  "name" : "Arriba Arriba",
  "restaurant_id" : "40380457"
}
{
  "_id" : ObjectId("60784955905d6c27ace349b8"),
  "borough" : "Bronx",
  "cuisine" : "American ",
  "name" : "African Market (Baboon Cafe)",
  "restaurant_id" : "40368026"
}
{
  "_id" : ObjectId("60784955905d6c27ace349eb"),
  "borough" : "Brooklyn",
  "cuisine" : "American ",
  "name" : "The River Cafe",
  "restaurant_id" : "40369600"
}
{
  "_id" : ObjectId("60784955905d6c27ace349e7"),
  "borough" : "Brooklyn",
  "cuisine" : "Hamburgers",
  "name" : "Mcdonald's",
}
```

Q21

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find( { $or: [ { name: /^Wil/, <"$and": [ { "cuisine" : { $ne : "American " } }, { "cuisine" : { $ne : "Chinees" } } ] } ], { "restaurant_id" : 1, "name":1, "borough":1, "cuisine" :1 } }.pretty()
{
  "_id" : ObjectId<"60784955905d6c27ace348dd">,
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "name" : "Morris Park Bake Shop",
  "restaurant_id" : "30075445"
}
{
  "_id" : ObjectId<"60784955905d6c27ace348fa">,
  "borough" : "Brooklyn",
  "cuisine" : "Caribbean",
  "name" : "Shashemene Int'L Restaura",
  "restaurant_id" : "40362869"
}
{
  "_id" : ObjectId<"60784955905d6c27ace348ec">,
  "borough" : "Brooklyn",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "name" : "Carvel Ice Cream",
  "restaurant_id" : "40360076"
}
{
  "_id" : ObjectId<"60784955905d6c27ace348f2">,
  "borough" : "Manhattan",
  "cuisine" : "Delicatessen",
  "name" : "Bully's Deli",
  "restaurant_id" : "40361708"
}
{
  "_id" : ObjectId<"60784955905d6c27ace348f8">,
  "borough" : "Queens",
  "cuisine" : "Chinese",
  "name" : "Ho Mei Restaurant",
  "restaurant_id" : "40362432"
}
{
  "_id" : ObjectId<"60784955905d6c27ace348ff">,
  "borough" : "Manhattan",
  "cuisine" : "Bakery",
  "name" : "Olive's",
  "restaurant_id" : "40363151"
}
{
  "_id" : ObjectId<"60784955905d6c27ace34956">,
  "borough" : "Manhattan",
  "cuisine" : "Italian",
  "name" : "Barbetta Restaurant",
  "restaurant_id" : "40365726"
}
{
  "_id" : ObjectId<"60784955905d6c27ace3497a">,
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",

```

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(
  {
    "grades.date": ISODate("2014-08-11T00:00:00Z"),
    "grades.grade": "A",
    "grades.score" : 11
  },
  { "restaurant_id" : 1, "name": 1, "grades": 1 }
).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace3495b"),
  "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("60784955905d6c27ace34a36"),
  "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"),

```


Q23

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> 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}
...   ).pretty()
{
  "_id" : ObjectId("60784956905d6c27acc34f00"),
  "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"
}
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> _

```



```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"address.coord.1":<$gt:42,$lte:52>>,<"restaurant_id":1,"name":1,"address":1,"coord":1>>).pretty()
{
  "_id" : ObjectId("60784955905d6c27ace34bab"),
  "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("60784955905d6c27ace34b7f"),
  "address" : {
    "building" : "47",
    "coord" : [
      -78.877224,
      42.89546199999999
    ],
    "street" : "Broadway @ Trinity Pl",
    "zipcode" : "10006"
  },
  "name" : "T.G.I. Friday'S",
  "restaurant_id" : "40307990"
}
{
  "_id" : ObjectId("60784956905d6c27ace34e04"),
  "address" : {
    "building" : "3000",
    "coord" : [
      -87.86567699999999,
      42.61150920000001
    ],
    "street" : "47 Avenue",
    "zipcode" : "11101"
  },
  "name" : "Di Luvio'S Deli",
  "restaurant_id" : "40402284"
}
{
  "_id" : ObjectId("60784956905d6c27ace35039"),
  "address" : {
    "building" : "21972199",
    "coord" : [
      -70.509606,
      42.8912372
    ],
    "street" : "Broadway",
    "zipcode" : "10024"
  },
  "name" : "La Caridad 70".
}

```

Q25



```
cmd C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find().sort(<<"name
":1>>).pretty()
```

Q26



A screenshot of a Windows command prompt window titled "C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...". The prompt shows the MongoDB shell interface with the text "MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY>". The command entered is `db.addresses.find().sort(<<"name":-1>>).pretty()`. The command prompt has a standard Windows title bar with minimize, maximize, and close buttons.

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find().sort(<<"name
":-1>>).pretty()
```

Q27

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find().sort(<<"cuis
ine":1,"borough" : -1,>>).pretty()
```

Q28

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"address.str
eet" :< $exists : true >>>).pretty()
```


Q29

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"address.coord":{$type:1}>>).pretty()
```

Q30

```
C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon...
MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<<"grades.score":<$mod:[7,0]>>,<"restaurant_id" : 1,"name":1,"grades":1>>).pretty()
```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon..."

MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(

```

{
  name :
  { $regex : "non.*", $options: "i" }
},
{
  "name":1,
  "borough":1,
  "address.coord":1,
  "cuisine" :1
}
).pretty()

```

```

{
  "_id" : ObjectId("60784955905d6c27ace3497a"),
  "address" : {
    "coord" : [
      -73.8221418,
      40.7272376
    ]
  },
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Shinons Kosher Pizza"
}

```

```

{
  "_id" : ObjectId("60784955905d6c27ace349b1"),
  "address" : {
    "coord" : [
      -73.9812843,
      40.5947365
    ]
  },
  "borough" : "Brooklyn",
  "cuisine" : "Pizza/Italian",
  "name" : "Lb Spumoni Gardens"
}

```

```

{
  "_id" : ObjectId("60784955905d6c27ace34a03"),
  "address" : {
    "coord" : [
      -73.951199,
      40.7166026
    ]
  },
  "borough" : "Brooklyn",
  "cuisine" : "Italian",
  "name" : "Bamonte's Restaurant"
}

```

```

{
  "_id" : ObjectId("60784955905d6c27ace34a3a"),
  "address" : {
    "coord" : [
      -73.924072,
      40.761089000000001
    ]
  },
  "borough" : "Queens",
  "cuisine" : "Greek",
}

```

C:\Windows\System32\cmd.exe - mongo "mongodb+srv://cluster0.i2q1n.mon..."

MongoDB Enterprise atlas-oac0p2-shard-0:PRIMARY> db.addresses.find(<

```

...      < name :
...        { $regex : /^Mad/i, }
...      },
...      <
...        "name":1,
...        "borough":1,
...        "address.coord":1,
...        "cuisine" :1
...      >
...    ).pretty()
<
{
  "_id" : ObjectId("60784956905d6c27ace34e19"),
  "address" : <
    "coord" : [
      -73.9860597,
      40.7431194
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Madison Square"
}
<
{
  "_id" : ObjectId("60784956905d6c27ace34ee7"),
  "address" : <
    "coord" : [
      -73.98302199999999,
      40.742313
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "Indian",
  "name" : "Madras Mahal"
}
<
{
  "_id" : ObjectId("60784957905d6c27ace35245"),
  "address" : <
    "coord" : [
      -73.98171959999999,
      40.7499406
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "French",
  "name" : "Madison Bistro"
}
<
{
  "_id" : ObjectId("60784957905d6c27ace35195"),
  "address" : <
    "coord" : [
      -74.0000002,
      40.72735
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "American "
}

```