

Q.1]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find().pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429803"),
  "address" : {
    "building" : "97-22",
    "coord" : [
      -73.8601152,
      40.7311739
    ],
    "street" : "63 Road",
    "zipcode" : "11374"
  },
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "grades" : [
    {
      "date" : ISODate("2014-11-24T00:00:00Z"),
      "grade" : "Z",
      "score" : 20
    },
    {
      "date" : ISODate("2013-01-17T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2012-08-02T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2011-12-15T00:00:00Z"),
      "grade" : "B",
      "score" : 25
    }
  ],
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429804"),
  "address" : {
    "building" : "2206",
    "coord" : [
      -74.1377286,
      40.6119572
    ],
    "street" : "Victory Boulevard",
    "zipcode" : "10314"
  },
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
}
```

Q.2]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({}, {_id:1,name:1,cuisine:1,borough:1,restaurant_id:1}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429803"),
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429804"),
  "borough" : "Staten Island",
  "cuisine" : "Jewish/Kosher",
  "name" : "Kosher Island",
  "restaurant_id" : "40356442"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429805"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "Riviera Caterer",
  "restaurant_id" : "40356018"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429806"),
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "name" : "Wilken's Fine Food",
  "restaurant_id" : "40356403"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429807"),
  "borough" : "Brooklyn",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "name" : "Taste The Tropics Ice Cream",
  "restaurant_id" : "40356731"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429808"),
  "borough" : "Brooklyn",
  "cuisine" : "American",
  "name" : "Regina Caterers",
  "restaurant_id" : "40356649"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429809"),
  "borough" : "Brooklyn",
  "cuisine" : "Chinese",
  "name" : "May May Kitchen",
  "restaurant_id" : "40358429"
}
```

Q.3]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({}, {_id:0,name:1,cuisine:1,borough:1,restaurant_id:1}).pretty();

{"borough": "Queens",
  "cuisine": "Jewish/Kosher",
  "name": "Tov Kosher Kitchen",
  "restaurant_id": "40356068"
},
{"borough": "Staten Island",
  "cuisine": "Jewish/Kosher",
  "name": "Kosher Island",
  "restaurant_id": "40356442"
},
{"borough": "Brooklyn",
  "cuisine": "American ",
  "name": "Riviera Caterer",
  "restaurant_id": "40356018"
},
{"borough": "Brooklyn",
  "cuisine": "Delicatessen",
  "name": "Wilken'S Fine Food",
  "restaurant_id": "40356483"
},
{"borough": "Brooklyn",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Taste The Tropics Ice Cream",
  "restaurant_id": "40356731"
},
{"borough": "Brooklyn",
  "cuisine": "American ",
  "name": "Regina Caterers",
  "restaurant_id": "40356649"
},
{"borough": "Brooklyn",
  "cuisine": "Chinese",
  "name": "May May Kitchen",
  "restaurant_id": "40358429"
},
{"borough": "Manhattan",
  "cuisine": "American ",
  "name": "1 East 66th Street Kitchen",
  "restaurant_id": "40359480"
}
```

Q.4]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find({}, {_id:0,name:1,cuisine:1,borough:1,restaurant_id:1,"address.zipcode":1}).pretty();

{"address": {
  "zipcode": "11374"
},
  "borough": "Queens",
  "cuisine": "Jewish/Kosher",
  "name": "Tov Kosher Kitchen",
  "restaurant_id": "40356068"
},
{"address": {
  "zipcode": "10314"
},
  "borough": "Staten Island",
  "cuisine": "Jewish/Kosher",
  "name": "Kosher Island",
  "restaurant_id": "40356442"
},
{"address": {
  "zipcode": "11224"
},
  "borough": "Brooklyn",
  "cuisine": "American ",
  "name": "Riviera Caterer",
  "restaurant_id": "40356018"
},
{"address": {
  "zipcode": "11234"
},
  "borough": "Brooklyn",
  "cuisine": "Delicatessen",
  "name": "Wilken'S Fine Food",
  "restaurant_id": "40356483"
},
{"address": {
  "zipcode": "11226"
},
  "borough": "Brooklyn",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Taste The Tropics Ice Cream",
  "restaurant_id": "40356731"
},
{"address": {
  "zipcode": "11219"
},
  "borough": "Manhattan",
  "cuisine": "American ",
  "name": "1 East 66th Street Kitchen",
  "restaurant_id": "40359480"
}
```

Q.5]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find({"borough":"Bronx"}).limit(5).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242980e"),
  "address" : {
    "building" : "2300",
    "coord" : [
      -73.8786113,
      40.8502883
    ],
    "street" : "Southern Boulevard",
    "zipcode" : "10460"
  },
  "borough" : "Bronx",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-05-28T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2013-06-19T00:00:00Z"),
      "grade" : "A",
      "score" : 4
    },
    {
      "date" : ISODate("2012-06-15T00:00:00Z"),
      "grade" : "A",
      "score" : 3
    }
  ],
  "name" : "Wild Asia",
  "restaurant_id" : "40357217"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429819"),
  "address" : {
    "building" : "1007",
    "coord" : [
      -73.856077,
      40.848447
    ],
    "street" : "Morris Park Ave",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "grades" : [

```

Q.6]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({"borough":"Bronx"}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242980e"),
  "address" : {
    "building" : "2300",
    "coord" : [
      -73.8786113,
      40.8502883
    ],
    "street" : "Southern Boulevard",
    "zipcode" : "10460"
  },
  "borough" : "Bronx",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-05-28T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2013-06-19T00:00:00Z"),
      "grade" : "A",
      "score" : 4
    },
    {
      "date" : ISODate("2012-06-15T00:00:00Z"),
      "grade" : "A",
      "score" : 3
    }
  ],
  "name" : "Wild Asia",
  "restaurant_id" : "40357217"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429819"),
  "address" : {
    "building" : "1007",
    "coord" : [
      -73.856077,
      40.848447
    ],
    "street" : "Morris Park Ave",
    "zipcode" : "10462"
  },
  "borough" : "Bronx",
  "cuisine" : "Bakery",
  "grades" : [

```

Q.7]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find({"borough":"Bronx")).skip(5).limit(5).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242983d"),
  "address" : {
    "building" : "658",
    "coord" : [
      -73.81363999999999,
      40.82941100000001
    ],
    "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" : "Manhem Club",
  "restaurant_id" : "40364363"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429855"),
  "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
    }
  ],
  "name" : "Mural's On 54/Randolph's",
  "restaurant_id" : "40372460"
}
```

Q.8]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({"grades.score":{"$gt":90}}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242995e"),
  "address" : {
    "building" : "65",
    "coord" : [
      -73.9782725,
      40.7624022
    ],
    "street" : "West 54 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-08-22T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2014-03-28T00:00:00Z"),
      "grade" : "C",
      "score" : 131
    },
    {
      "date" : ISODate("2013-09-25T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2013-04-08T00:00:00Z"),
      "grade" : "B",
      "score" : 25
    },
    {
      "date" : ISODate("2012-10-15T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2011-10-19T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    }
  ],
  "name" : "Mural's On 54/Randolph's",
  "restaurant_id" : "40372460"
}
```

Q.9]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({'$and':[{"grades.score":{"$gt":90}},{"grades.score":{"$lt":100}}]}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242995e"),
  "address" : {
    "building" : "65",
    "coord" : [
      -73.9782725,
      40.7624022
    ],
    "street" : "West 54 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "American",
  "grades" : [
    {
      "date" : ISODate("2014-08-22T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2014-03-28T00:00:00Z"),
      "grade" : "C+",
      "score" : 131
    },
    {
      "date" : ISODate("2013-09-25T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2013-04-08T00:00:00Z"),
      "grade" : "B",
      "score" : 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/Randolph's S",
  "restaurant_id" : "40372466"
}
```

Q.10]

```
C:\Windows\System32\cmd.exe - mongo
{
  "coord" : [
    -73.984758,
    40.7457939
  ],
  "street" : "Madison Avenue",
  "zipcode" : "10016"
},
"borough" : "Manhattan",
"cuisine" : "Pizza/Italian",
"grades" : [
  {
    "date" : ISODate("2014-12-24T00:00:00Z"),
    "grade" : "Z",
    "score" : 31
  },
  {
    "date" : ISODate("2014-06-17T00:00:00Z"),
    "grade" : "C+",
    "score" : 98
  },
  {
    "date" : ISODate("2013-12-12T00:00:00Z"),
    "grade" : "C",
    "score" : 32
  },
  {
    "date" : ISODate("2013-05-22T00:00:00Z"),
    "grade" : "B",
    "score" : 21
  },
  {
    "date" : ISODate("2012-05-02T00:00:00Z"),
    "grade" : "A",
    "score" : 11
  }
],
"name" : "Bella Napoli",
"restaurant_id" : "40393488"
}
MongoDB Enterprise > db.addresses.find({'$and':[{"address.coord.0":{"$lt":-95.754168}}]});
{ "_id" : ObjectId("6107f8e2cfecf8f2e2429e4b"), "address" : { "building" : "3787", "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("6107f8e2cfecf8f2e242a1b7"), "address" : { "building" : "15259", "coord" : [ -119.6368672, 36.2504996 ], "street" : "10 Avenue", "zipcode" : "11357" }, "borough" : "Queens", "cuisine" : "Italian", "grades" : [ { "date" : ISODate("2014-09-04T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2014-03-26T00:00:00Z"), "grade" : "A", "score" : 8 }, { "date" : ISODate("2013-03-04T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-09-27T00:00:00Z"), "grade" : "A", "score" : 10 }, { "date" : ISODate("2012-04-20T00:00:00Z"), "grade" : "A", "score" : 7 }, { "date" : ISODate("2011-11-23T00:00:00Z"), "grade" : "C", "score" : 34 } ], "name" : "Casciarino's", "restaurant_id" : "40668681" },
{ "_id" : ObjectId("6107f8e2cfecf8f2e242a05b"), "address" : { "building" : "60", "coord" : [ -111.9979705, 42.0970258 ], "street" : "West Side Highway", "zipcode" : "10006" }, "borough" : "Manhattan", "cuisine" : "Japanese", "grades" : [ { "date" : ISODate("2014-03-20T00:00:00Z"), "grade" : "A", "score" : 9 }, { "date" : ISODate("2013-06-28T00:00:00Z"), "grade" : "A", "score" : 11 }, { "date" : ISODate("2012-07-05T00:00:00Z"), "grade" : "A", "score" : 13 }, { "date" : ISODate("2011-07-27T00:00:00Z"), "grade" : "A", "score" : 2 } ], "name" : "Sports Center At Chelsea Piers (Sushi Bar)", "restaurant_id" : "40882356" }
```

Q.11]

```

C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({'and':{'cuisine':{'$ne':'American'}},'address.coord.0':{'$lt:-65.754168}},'grades.score':{'$gt:70}}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242995e"),
  "address" : {
    "building" : "65",
    "coord" : [
      -73.9782725,
      40.7624022
    ],
    "street" : "West 54 Street",
    "zipcode" : "10019"
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-08-22T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2014-03-28T00:00:00Z"),
      "grade" : "C",
      "score" : 131
    },
    {
      "date" : ISODate("2013-09-25T00:00:00Z"),
      "grade" : "A",
      "score" : 11
    },
    {
      "date" : ISODate("2013-04-08T00:00:00Z"),
      "grade" : "B",
      "score" : 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"
}

```

Q.13]

```

C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({'and':{'cuisine':{'$ne':'American'}},'grades.grade':'A'},{'borough':{'$ne':'Brooklyn'}})).sort({'cuisine':-1}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429f0f"),
  "address" : {
    "building" : "89",
    "coord" : [
      -73.9995899,
      40.7168015
    ],
    "street" : "Baxter Street",
    "zipcode" : "10013"
  },
  "borough" : "Manhattan",
  "cuisine" : "Vietnamese/Cambodian/Malaysia",
  "grades" : [
    {
      "date" : ISODate("2014-08-21T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2013-08-31T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2013-04-11T00:00:00Z"),
      "grade" : "C",
      "score" : 3
    },
    {
      "date" : ISODate("2012-10-17T00:00:00Z"),
      "grade" : "A",
      "score" : 4
    },
    {
      "date" : ISODate("2012-05-15T00:00:00Z"),
      "grade" : "A",
      "score" : 10
    }
  ],
  "name" : "Thai Son",
  "restaurant_id" : "40559606"
},
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429fc6"),
  "address" : {
    "building" : "8278",
    "coord" : [
      -73.88143589999999,

```

Q.14], Q.15], Q.16]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find({"name":{"regex":"/Wil.*?/"}},{_id:0,restaurant_id:1,nme:1,borough:1,cuisine:1}).pretty();
{
  "borough" : "Brooklyn",
  "cuisine" : "Delicatessen",
  "restaurant_id" : "40356483"
}

{
  "borough" : "Bronx",
  "cuisine" : "American ",
  "restaurant_id" : "40357217"
}

{
  "borough" : "Bronx", "cuisine" : "Pizza", "restaurant_id" : "40871979" }
MongoDB Enterprise > db.addresses.find({"name":{"regex":"/.*ces$/"}},{_id:0,restaurant_id:1,nme:1,borough:1,cuisine:1}).pretty();
{
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "restaurant_id" : "40399910"
}

{
  "borough" : "Queens",
  "cuisine" : "American ",
  "restaurant_id" : "40403857"
}

{
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "restaurant_id" : "40403989"
}

{
  "borough" : "Queens",
  "cuisine" : "Ice Cream, Gelato, Yogurt, Ices",
  "restaurant_id" : "40690899"
}

{
  "borough" : "Brooklyn",
  "cuisine" : "Jewish/Kosher",
  "restaurant_id" : "40782042"
}

{
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "restaurant_id" : "40786068"
}
MongoDB Enterprise > db.addresses.find({"name":{"regex":"/Reg/"}},{_id:0,restaurant_id:1,nme:1,borough:1,cuisine:1}).pretty();
{
  "borough" : "Brooklyn",
  "cuisine" : "American ",
  "restaurant_id" : "40356649"
}
```

Q.17]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({borough:"Bronx",cuisine:{$in:["American","Chinese"]}}, {_id:0,restaurant_id:1,name:1,borough:1,cuisine:1}).pretty();
{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "Happy Garden",
  "restaurant_id" : "40363289"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "Happy Garden",
  "restaurant_id" : "40364296"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "China Wok II",
  "restaurant_id" : "40510328"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "Dragon City",
  "restaurant_id" : "40529203"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "Hunan Balcony",
  "restaurant_id" : "40551996"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "Great Wall Restaurant",
  "restaurant_id" : "40552226"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "Lucky House Restaurant",
  "restaurant_id" : "40571587"
}

{
  "borough" : "Bronx",
  "cuisine" : "Chinese",
  "name" : "New Mah Kitchen",
  "restaurant_id" : "40573101"
}
```

Q.18]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find(($or:[{"borough":"Staten Island"}, {"borough":"Bronx Brooklyn"}, {"borough":"Queens"}]),{_id:0,restaurant_id:1,name:1,borough:1,cuisine:1}).pretty();

{"borough": "Queens",
  "cuisine": "Jewish/Kosher",
  "name": "Tov Kosher Kitchen",
  "restaurant_id": "40356068"}

{"borough": "Staten Island",
  "cuisine": "Jewish/Kosher",
  "name": "Kosher Island",
  "restaurant_id": "40356442"}

{"borough": "Queens",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Carvel Ice Cream",
  "restaurant_id": "40361322"}

{"borough": "Queens",
  "cuisine": "Delicatessen",
  "name": "Sal's Deli",
  "restaurant_id": "40361618"}

{"borough": "Queens",
  "cuisine": "Delicatessen",
  "name": "Steve Chu's Deli & Grocery",
  "restaurant_id": "40361998"}

{"borough": "Queens",
  "cuisine": "American",
  "name": "Brunos On The Boulevard",
  "restaurant_id": "40356151"}

{"borough": "Queens",
  "cuisine": "Chinese",
  "name": "Ho Mei Restaurant",
  "restaurant_id": "40362432"}

{"borough": "Queens",
  "cuisine": "Delicatessen",
  "name": "Tony's Deli",
  "restaurant_id": "40363333"}

Type here to search
```

Q.19]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find((borough:{nin:["Staten Island","Bronx Brooklyn","Queens"}]),{_id:0,restaurant_id:1,name:1,borough:1,cuisine:1}).pretty();

{"borough": "Brooklyn",
  "cuisine": "American",
  "name": "Riviera Caterer",
  "restaurant_id": "40356018"}

{"borough": "Brooklyn",
  "cuisine": "Delicatessen",
  "name": "Wilken's Fine Food",
  "restaurant_id": "40356483"}

{"borough": "Brooklyn",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Taste The Tropics Ice Cream",
  "restaurant_id": "40356731"}

{"borough": "Brooklyn",
  "cuisine": "American",
  "name": "Regina Caterers",
  "restaurant_id": "40356649"}

{"borough": "Brooklyn",
  "cuisine": "Chinese",
  "name": "May May Kitchen",
  "restaurant_id": "40358429"}

{"borough": "Manhattan",
  "cuisine": "American",
  "name": "1 East 66th Street Kitchen",
  "restaurant_id": "40359480"}

{"borough": "Brooklyn",
  "cuisine": "American",
  "name": "C & C Catering Service",
  "restaurant_id": "40357437"}

{"borough": "Brooklyn",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Carvel Ice Cream",
  "restaurant_id": "40360076"}

Type here to search
```


Q.20]

```

C:\Windows\System32\cmd.exe - mongo

"borough": "Bronx",
"cuisine": "Bakery",
"name": "Morris Park Bake Shop",
"restaurant_id": "30075445"

"borough": "Manhattan",
"cuisine": "Irish",
"name": "Dj Reynolds Pub And Restaurant",
"restaurant_id": "30191841"

"borough": "Manhattan",
"cuisine": "American",
"name": "Angelika Film Center",
"restaurant_id": "40362274"

Type "it" for more
MongoDB Enterprise > db.addresses.find({"grades.score":{"$lte":10}},{"_id:0,restaurant_id:1,name:1,borough:1,cuisine:1});
{ "borough": "Staten Island", "cuisine": "Jewish/Kosher", "name": "Kosher Island", "restaurant_id": "40356442" }
{ "borough": "Brooklyn", "cuisine": "American", "name": "Riviera Caterer", "restaurant_id": "40356018" }
{ "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Milken's Fine Food", "restaurant_id": "40356483" }
{ "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Taste The Tropics Ice Cream", "restaurant_id": "40356731" }
{ "borough": "Brooklyn", "cuisine": "American", "name": "Regina Caterers", "restaurant_id": "40356649" }
{ "borough": "Brooklyn", "cuisine": "Chinese", "name": "May May Kitchen", "restaurant_id": "40358429" }
{ "borough": "Manhattan", "cuisine": "American", "name": "I East 66th Street Kitchen", "restaurant_id": "40359480" }
{ "borough": "Brooklyn", "cuisine": "American", "name": "C & C Catering Service", "restaurant_id": "40357437" }
{ "borough": "Brooklyn", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40360076" }
{ "borough": "Queens", "cuisine": "Ice Cream, Gelato, Yogurt, Ices", "name": "Carvel Ice Cream", "restaurant_id": "40361322" }
{ "borough": "Bronx", "cuisine": "American", "name": "Wild Asia", "restaurant_id": "40357217" }
{ "borough": "Brooklyn", "cuisine": "Jewish/Kosher", "name": "Seuda Foods", "restaurant_id": "40360045" }
{ "borough": "Brooklyn", "cuisine": "Hamburgers", "name": "Wendy's", "restaurant_id": "30112340" }
{ "borough": "Brooklyn", "cuisine": "Delicatessen", "name": "Nordic Delicacies", "restaurant_id": "40361390" }
{ "borough": "Manhattan", "cuisine": "American", "name": "Glorious Food", "restaurant_id": "40361521" }
{ "borough": "Manhattan", "cuisine": "Delicatessen", "name": "Bully's Deli", "restaurant_id": "40361708" }
{ "borough": "Queens", "cuisine": "Delicatessen", "name": "Sal's Deli", "restaurant_id": "40361618" }
{ "borough": "Brooklyn", "cuisine": "American", "name": "The Movable Feast", "restaurant_id": "40361600" }
{ "borough": "Queens", "cuisine": "Delicatessen", "name": "Steve Chu's Deli & Grocery", "restaurant_id": "40361998" }
{ "borough": "Manhattan", "cuisine": "Chicken", "name": "Harriet's Kitchen", "restaurant_id": "40362098" }

Type "it" for more
MongoDB Enterprise >

```

Q.21]

```

C:\Windows\System32\cmd.exe - mongo

Type "it" for more
MongoDB Enterprise > db.addresses.find({"$nor":[{"cuisine":{"$in":["American","Chinese"]}}, {"name":{"$il":["/"]}}],{"_id:0,restaurant_id:1,name:1,borough:1,cuisine:1}}).pretty();
{
  "borough": "Queens",
  "cuisine": "Jewish/Kosher",
  "name": "Tov Kosher Kitchen",
  "restaurant_id": "40356068"

  "borough": "Staten Island",
  "cuisine": "Jewish/Kosher",
  "name": "Kosher Island",
  "restaurant_id": "40356442"

  "borough": "Brooklyn",
  "cuisine": "American",
  "name": "Riviera Caterer",
  "restaurant_id": "40356018"

  "borough": "Brooklyn",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Taste The Tropics Ice Cream",
  "restaurant_id": "40356731"

  "borough": "Brooklyn",
  "cuisine": "American",
  "name": "Regina Caterers",
  "restaurant_id": "40356649"

  "borough": "Manhattan",
  "cuisine": "American",
  "name": "I East 66th Street Kitchen",
  "restaurant_id": "40359480"

  "borough": "Brooklyn",
  "cuisine": "American",
  "name": "C & C Catering Service",
  "restaurant_id": "40357437"

  "borough": "Brooklyn",
  "cuisine": "Ice Cream, Gelato, Yogurt, Ices",
  "name": "Carvel Ice Cream",
  "restaurant_id": "40360076"
}

```

Q.22]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({"grades":{"$elemMatch":{"date":ISODate("2014-08-11T00:00:00Z"),"grade":"A","score":11}}},{_id:0,restaurant_id:1,name:1,grades:1}).pretty();
{
  "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"
}
MongoDB Enterprise >
```

Q.24]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({"and":[{"address.coord.1":{"$gt":42}},{"address.coord.1":{"$lte":52}}]},{_id:0,restaurant_id:1,name:1,address:1}).pretty();
{
  "address" : {
    "building" : "47",
    "coord" : [
      -78.877224,
      42.89546199999999
    ],
    "street" : "Broadway @ Trinity Pl",
    "zipcode" : "10006"
  },
  "name" : "T.G.I. Friday'S",
  "restaurant_id" : "40387990"
},
{
  "address" : {
    "building" : "1",
    "coord" : [
      -0.7119979,
      51.6514664
    ],
    "street" : "Pennplaza E, Penn Sta",
    "zipcode" : "10001"
  },
  "name" : "T.G.I. Fridays",
  "restaurant_id" : "40388936"
},
{
  "address" : {
    "building" : "3000",
    "coord" : [
      -87.86567699999999,
      42.61150920000001
    ],
    "street" : "47 Avenue",
    "zipcode" : "11101"
  },
  "name" : "Di Luvio'S Deli",
  "restaurant_id" : "40402284"
},
{
  "address" : {
    "building" : "21972199",
    "coord" : [
      -78.589606,
      42.8912372
    ],
    "street" : "Broadway",
    "zipcode" : "10024"
  },
  "name" : "Di Luvio'S Deli",
  "restaurant_id" : "40402284"
}
MongoDB Enterprise >
```

Q.25], Q.26]

```
C:\Windows\System32\cmd.exe - mongo
MongoDB Enterprise > db.addresses.find({},[_id:0,name:1]).sort((name:1)).pretty();
{ "name" : "(Lewis Drug Store) Locanda Vini E Olii" }
{ "name" : "1 East 66Th Street Kitchen" }
{ "name" : "101 Deli" }
{ "name" : "101 Restaurant And Bar" }
{ "name" : "1026 Bar" }
{ "name" : "104-01 Foster Avenue Coffee Shop(UpS)" }
{ "name" : "10Th Avenue Pizza & Cafe" }
{ "name" : "111 Restaurant" }
{ "name" : "15 East Restaurant" }
{ "name" : "200 Fifth Avenue Restaurant & Sports Bar" }
{ "name" : "21 Club" }
{ "name" : "2A" }
{ "name" : "3 Deli & Grill" }
{ "name" : "3 Guys" }
{ "name" : "3 Guys Restaurant" }
{ "name" : "4204 Street Pizza Diner" }
{ "name" : "44 & X Hell'S Kitchen" }
{ "name" : "44 Sw Ristorante & Bar" }
{ "name" : "5 Burro Cafe" }
{ "name" : "525 Lex Restaurant & Bar" }
Type "it" for more
MongoDB Enterprise > db.addresses.find({},[_id:0,name:1]).sort((name:-1));
{ "name" : "Zum Stammisch" }
{ "name" : "Zum Schneider" }
{ "name" : "Zorba'S" }
{ "name" : "Zebu Grill" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bread Basket" }
{ "name" : "Zaro'S Bakery" }
{ "name" : "Zaro'S Bakery" }
{ "name" : "Zafi'S Luncheonette" }
{ "name" : "Yvonne Yvonne Restaurant" }
{ "name" : "Yura & Company On Madison" }
{ "name" : "Yummy Kitchen" }
{ "name" : "Your Bakery" }
{ "name" : "Yonah Shimmels Knishes" }
{ "name" : "Volanda Pizzeria Restaurant" }
{ "name" : "Vip'S" }
{ "name" : "Yen Yen Restaurant" }
Type "it" for more
MongoDB Enterprise > _
```

Q.27], Q.28] - WITH STREET

```
C:\Windows\System32\cmd.exe - mongo
{ "name" : "Zaro'S Bakery" }
{ "name" : "Zafi'S Luncheonette" }
{ "name" : "Yvonne Yvonne Restaurant" }
{ "name" : "Yura & Company On Madison" }
{ "name" : "Yummy Kitchen" }
{ "name" : "Your Bakery" }
{ "name" : "Yonah Shimmels Knishes" }
{ "name" : "Volanda Pizzeria Restaurant" }
{ "name" : "Vip'S" }
{ "name" : "Yen Yen Restaurant" }
Type "it" for more
MongoDB Enterprise > db.addresses.find({},[_id:0,cuisine:1,borough:1]).sort((cuisine:1,borough:-1)).pretty();
{ "borough" : "Manhattan", "cuisine" : "Afghan" }
{ "borough" : "Manhattan", "cuisine" : "Afghan" }
{ "borough" : "Manhattan", "cuisine" : "Afghan" }
{ "borough" : "Queens", "cuisine" : "African" }
{ "borough" : "Brooklyn", "cuisine" : "African" }
{ "borough" : "Bronx", "cuisine" : "African" }
{ "borough" : "Bronx", "cuisine" : "African" }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
{ "borough" : "Staten Island", "cuisine" : "American " }
Type "it" for more
MongoDB Enterprise > db.addresses.find({"address.street":{"regex:/Street/}}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e242980a"),
  "address" : {
    "building" : "1",
    "coord" : [
      -73.96926099999999,
      40.7695235
    ],
    "street" : "East 66 Street",
    "zipcode" : "10065"
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "grades" : [
    {
      "date" : ISODate("2014-05-07T00:00:00Z"),
```

Q.28] - NOT WITH STREET

```
C:\Windows\System32\cmd.exe - mongo
    "grade": "A",
    "score": 12
  },
  {
    "name": "Criminal Court Bldg Cafeteria",
    "restaurant_id": "40364443"
  }
}
Type "it" for more
MongoDB Enterprise > db.addresses.find({"address.street":{"ne":{"regex:/Street/}}}).pretty();
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429803"),
  "address" : {
    "building" : "97-22",
    "coord" : [
      -73.8601152,
      40.7311739
    ],
    "street" : "63 Road",
    "zipcode" : "11374"
  },
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "grades" : [
    {
      "date" : ISODate("2014-11-24T00:00:00Z"),
      "grade" : "Z",
      "score" : 20
    },
    {
      "date" : ISODate("2013-01-17T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2012-08-02T00:00:00Z"),
      "grade" : "A",
      "score" : 13
    },
    {
      "date" : ISODate("2011-12-15T00:00:00Z"),
      "grade" : "B",
      "score" : 25
    }
  ],
  "name" : "Tov Kosher Kitchen",
  "restaurant_id" : "40356068"
}
{
  "_id" : ObjectId("6107f8e2cfecf8f2e2429804"),
  "address" : {
```

Q.29]

```
C:\Windows\System32\cmd.exe - mongo
    "name": "Steve Chu'S Deli & Grocery",
    "restaurant_id": "40361998"
  }
}
Type "it" for more
MongoDB Enterprise > db.addresses.find({"address.coord":{"type":"double"}},{_id:0,address:1}).pretty();
{
  "address" : {
    "building" : "97-22",
    "coord" : [
      -73.8601152,
      40.7311739
    ],
    "street" : "63 Road",
    "zipcode" : "11374"
  }
}
{
  "address" : {
    "building" : "2206",
    "coord" : [
      -74.1377286,
      40.6119572
    ],
    "street" : "Victory Boulevard",
    "zipcode" : "10314"
  }
}
{
  "address" : {
    "building" : "2780",
    "coord" : [
      -73.98241999999999,
      40.579505
    ],
    "street" : "Stillwell Avenue",
    "zipcode" : "11224"
  }
}
{
  "address" : {
    "building" : "7114",
    "coord" : [
      -73.9068506,
      40.6199034
    ],
    "street" : "Avenue U",
    "zipcode" : "11234"
  }
}
```

Q.30]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find({"grades":{"$elemMatch":{"score":{"$mod:[7,0]}}}},{_id:0,restaurant_id:1,name:1,grades:1}).pretty();
{
  "grades" : [
    {
      "date" : ISODate("2014-06-10T00:00:00Z"),
      "grade" : "A",
      "score" : 5
    },
    {
      "date" : ISODate("2013-06-05T00:00:00Z"),
      "grade" : "A",
      "score" : 7
    },
    {
      "date" : ISODate("2012-04-13T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    },
    {
      "date" : ISODate("2011-10-12T00:00:00Z"),
      "grade" : "A",
      "score" : 12
    }
  ],
  "name" : "Riviera Caterer",
  "restaurant_id" : "40356018"
}
{
  "grades" : [
    {
      "date" : ISODate("2014-09-16T00:00:00Z"),
      "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",

```

Q.31]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find((name:{$regex:/mon/}),{_id:0,name:1,borough:1,"address.coord":1,cuisine:1}).pretty();
{
  "address" : {
    "coord" : [
      -73.98386099999999,
      40.7441419
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Desmond'S Tavern"
}
{
  "address" : {
    "coord" : [
      -73.8221418,
      40.7272376
    ]
  },
  "borough" : "Queens",
  "cuisine" : "Jewish/Kosher",
  "name" : "Shimons Kosher Pizza"
}
{
  "address" : {
    "coord" : [
      -74.10465999999999,
      40.58834
    ]
  },
  "borough" : "Staten Island",
  "cuisine" : "American ",
  "name" : "Richmond County Country Club"
}
{
  "address" : {
    "coord" : [
      -73.9812843,
      40.5947365
    ]
  },
  "borough" : "Brooklyn",
  "cuisine" : "Pizza/Italian",
  "name" : "Lb Spumoni Gardens"
}
{
  "address" : {
    "coord" : [
```

Q.32]

```
C:\Windows\System32\cmd.exe - mongo
Type "it" for more
MongoDB Enterprise > db.addresses.find({name:{$regex:"Mad.*"}},{_id:0,name:1,borough:1,"address.coord":1,cuisine:1}).pretty();
{
  "address" : {
    "coord" : [
      -73.9860597,
      40.7431194
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Madison Square"
}
{
  "address" : {
    "coord" : [
      -73.98302199999999,
      40.742313
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "Indian",
  "name" : "Madras Mahal"
}
{
  "address" : {
    "coord" : [
      -74.000002,
      40.72735
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "American ",
  "name" : "Madame X"
}
{
  "address" : {
    "coord" : [
      -73.98171959999999,
      40.7499406
    ]
  },
  "borough" : "Manhattan",
  "cuisine" : "French",
  "name" : "Madison Bistro"
}
{
  "address" : {
    "coord" : [

```