SHIV PRATAP SINGH PARMAR (Assignment-7)

1. 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.restaurants.find({},{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1,"_id":0});

```
> db.restaurants.find({},{"restaurant_id" : 1,"name":1,"borough":1,"cuisine" :1,"_id":0});
{ "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" }
{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112340" }
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "30191841" }
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
{ "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Tov Kosher Kitchen", "restaurant_id" : "40356068" }
{ "borough" : "Queens", "cuisine" : "American ", "name" : "Brunos On The Boulevard", "restaurant_id" : "40356151" }
{ "borough" : "Staten Island", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356442" }
{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Wilken'S Fine Food", "restaurant_id" : "40356483" }
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "40356649" }
{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Taste The Tropics Ice Cream", "restaurant_id" : "40356
731" }
{ "borough" : "Bronx", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "C & C Catering Service", "restaurant_id" : "40357437" }
{ "borough" : "Brooklyn", "cuisine" : "Chinese", "name" : "May May Kitchen", "restaurant_id" : "40358429" }
{ "borough" : "Manhattan", "cuisine" : "American ", "name" : "1 East 66Th Street Kitchen", "restaurant_id" : "40359480" }
{ "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Seuda Foods", "restaurant_id" : "40360045" }
{ "borough" : "Brooklyn", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40360076" }
{ "borough" : "Queens", "cuisine" : "Ice Cream, Gelato, Yogurt, Ices", "name" : "Carvel Ice Cream", "restaurant_id" : "40361322" }
{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Nordic Delicacies", "restaurant_id" : "40361390" }
{ "borough" : "Manhattan", "cuisine" : "American ", "name" : "Glorious Food", "restaurant_id" : "40361521" }
{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "The Movable Feast", "restaurant_id" : "40361606" }
Type "it" for more
```

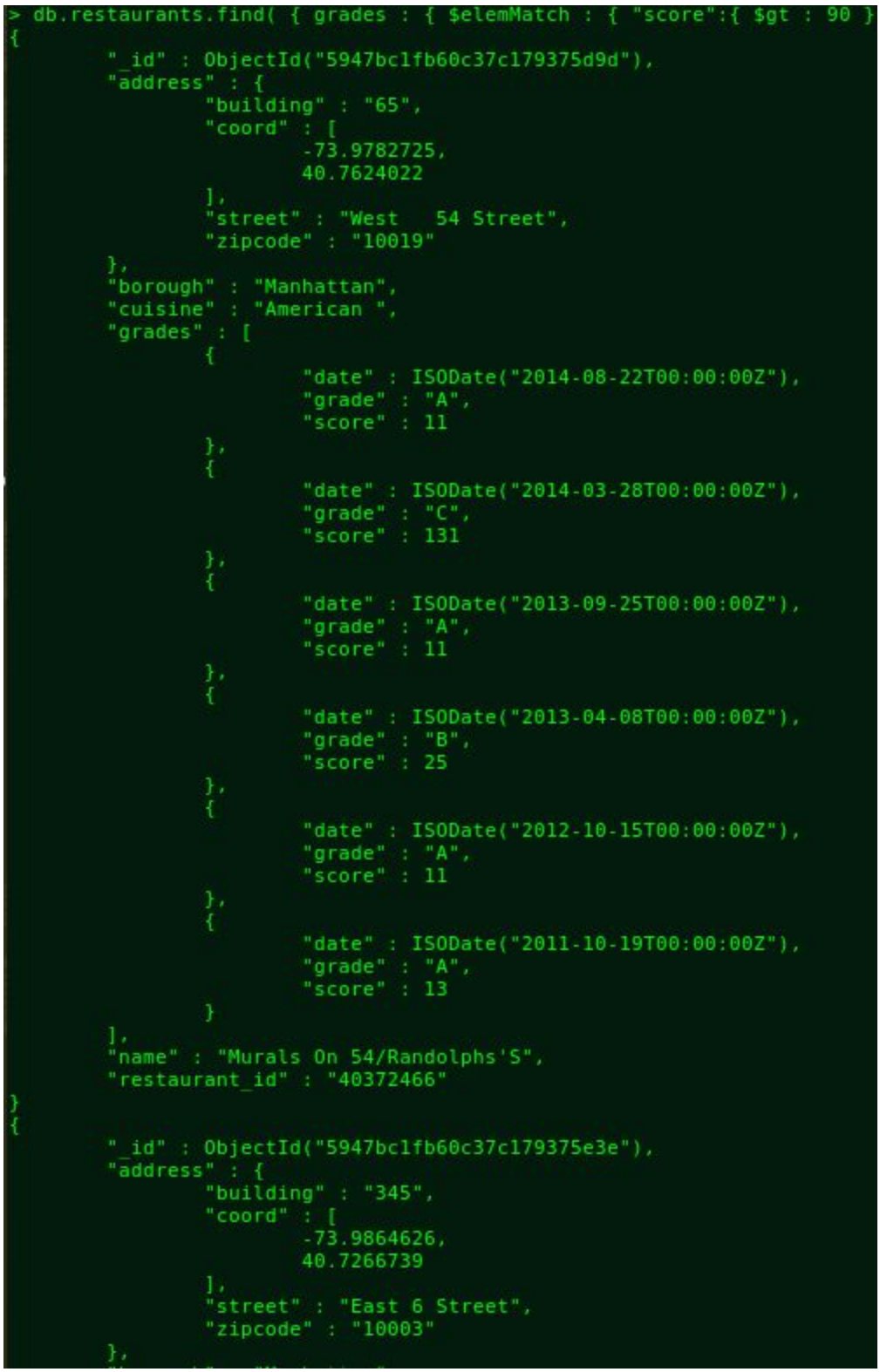
2. Write a MongoDB query to display all the restaurant which is in the borough Bronx

db.restaurants.find({"borough": "Bronx"}).pretty();

```
> db.restaurants.find({"borough": "Bronx"}).pretty();
{
        "_id" : ObjectId("5947bc1fb60c37c179375c3f"),
        "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("5947bc1fb60c37c179375c49"),
        "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"),
```

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

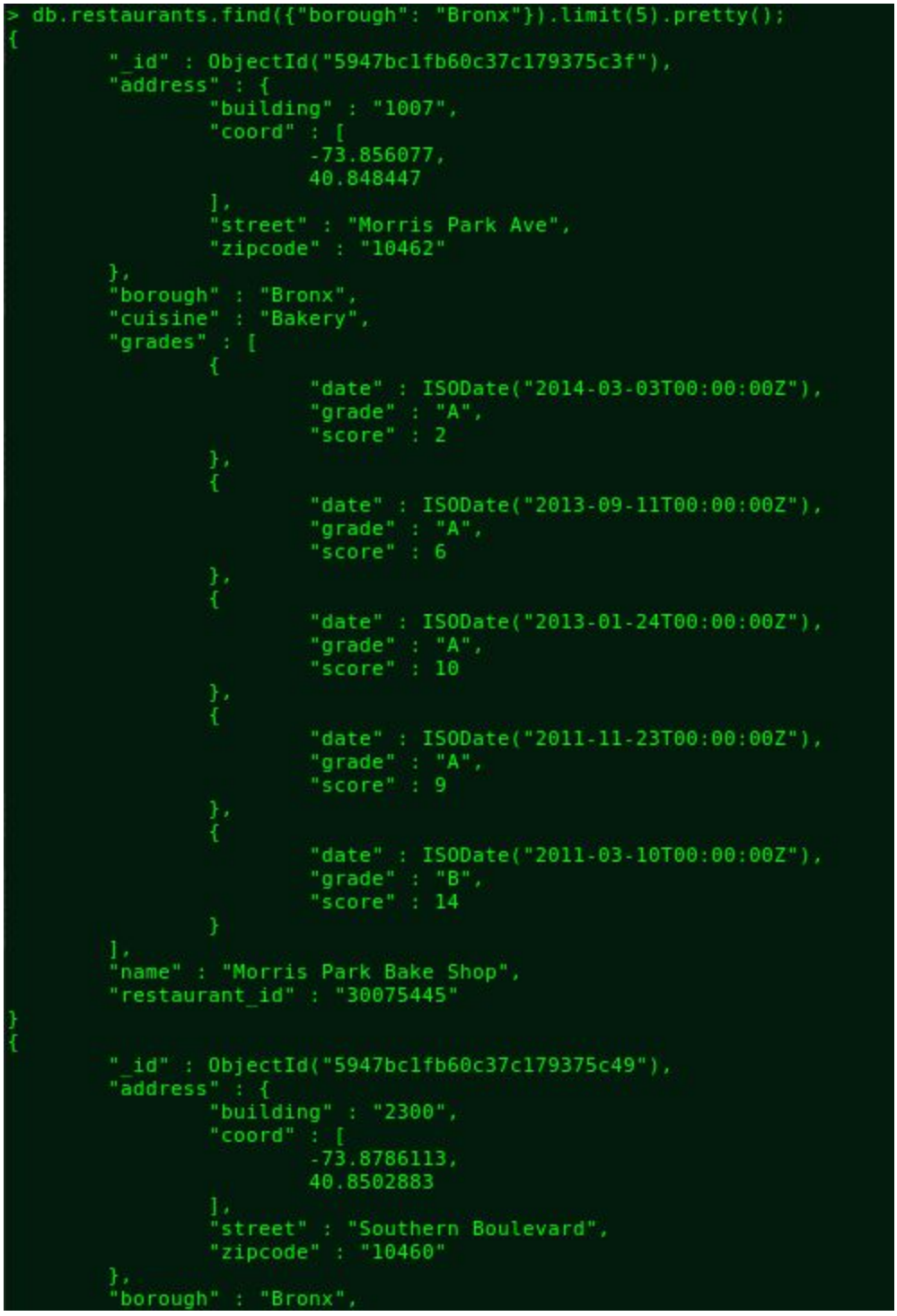
db.restaurants.find({ grades : { $elemMatch : { "score":{ $gt : 90 } } } });



```
> db.restaurants.find( { grades : { $elemMatch : { "score":{ $gt : 90 } } } } );
{
        "_id" : ObjectId("5947bc1fb60c37c179375d9d"),
        "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"
}
{
        "_id" : ObjectId("5947bc1fb60c37c179375e3e"),
        "address" : {
                "building" : "345",
                "coord" : [
                        -73.9864626,
                        40.7266739
                ],
                "street" : "East 6 Street",
                "zipcode" : "10003"
        },
```

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

db.restaurants.find({"borough": "Bronx"}).limit(5);



```
> db.restaurants.find({"borough": "Bronx"}).limit(5).pretty();
{
        "_id" : ObjectId("5947bc1fb60c37c179375c3f"),
        "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("5947bc1fb60c37c179375c49"),
        "address" : {
                "building" : "2300",
                "coord" : [
                        -73.8786113,
                        40.8502883
                ],
                "street" : "Southern Boulevard",
                "zipcode" : "10460"
        },
        "borough" : "Bronx",
```

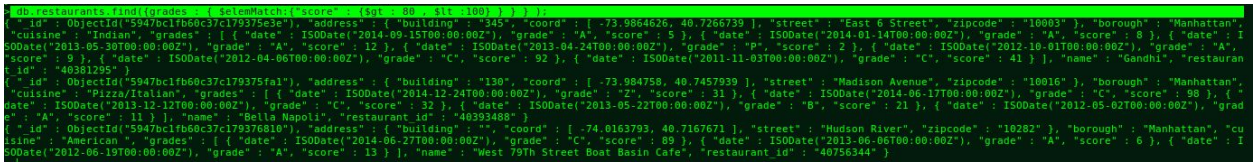
5. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx

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

```
> db.restaurants.find( {"borough": "Bronx"} ).skip(5).limit(5).pretty();
{
        "_id" : ObjectId("5947bc1fb60c37c179375c7c"),
        "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("5947bc1fb60c37c179375c94"),
        "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",
                        "score" : 12
                },
                {
                        "date" : ISODate("2012-09-20T00:00:00Z"),
                        "grade" : "A",
```

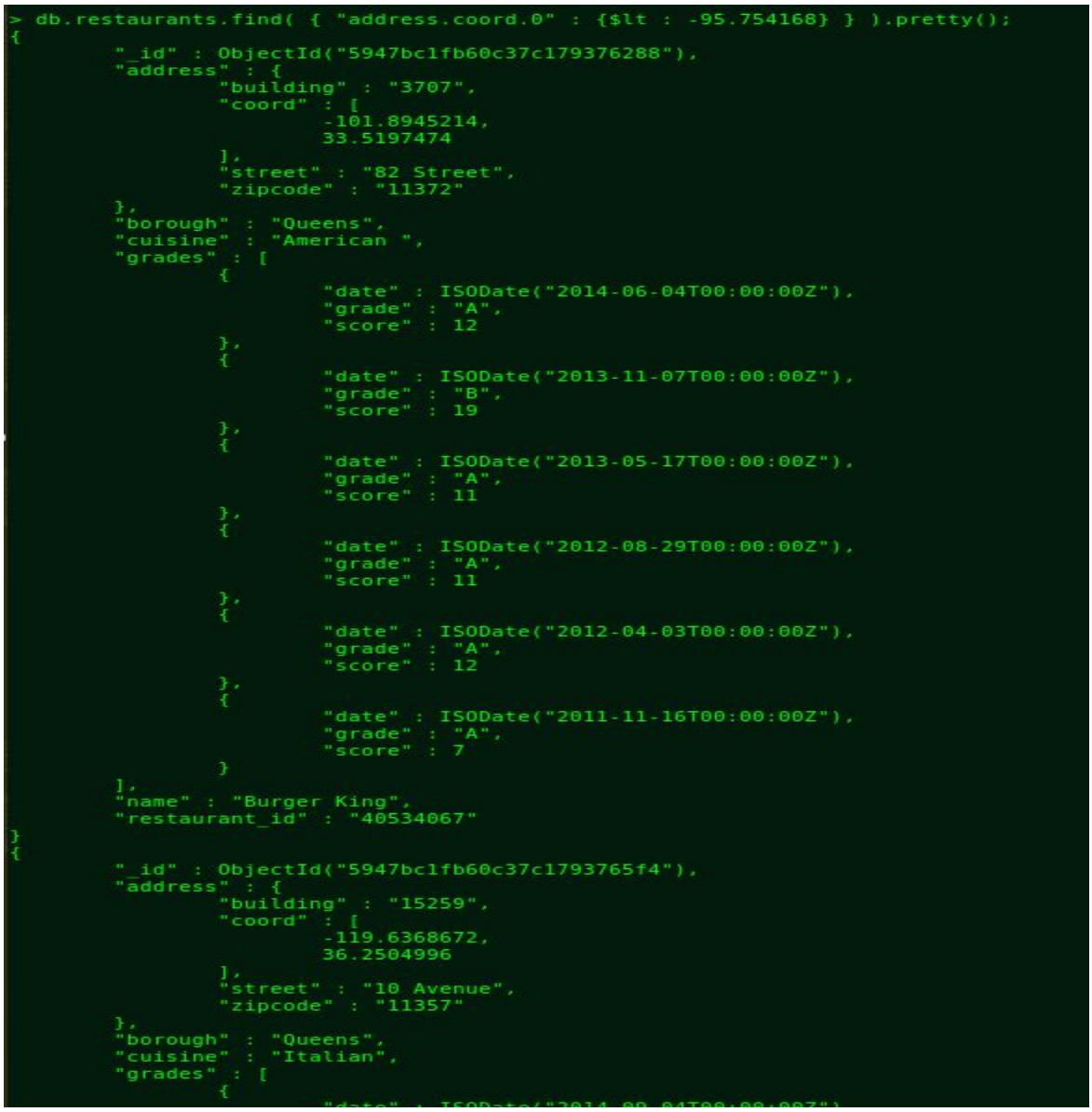
6. Write a MongoDB query to find the restaurants that achieved a score, more than 80 but less than 100

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



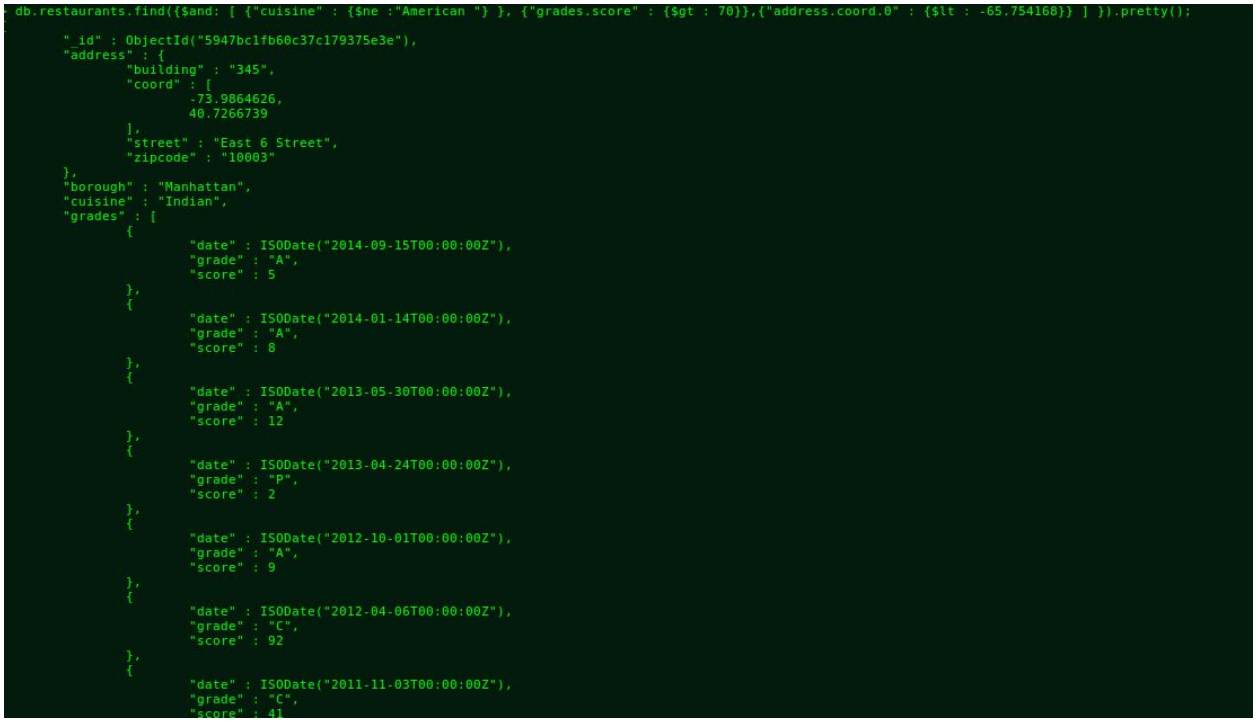
7. Write a MongoDB query to find the restaurants which locate in latitude value less than -95.754168

db.restaurants.find({ "address.coord.0" : {$lt : -95.754168} });



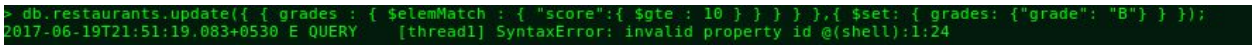
8. Write a MongoDB query to find the restaurants that do not prepare any cuisine of 'American' and their grade score more than 70 and latitude less than -65.754168

db.restaurants.find({$and: [{"cuisine" : {$ne :"American "} }, {"grades.score" : {$gt : 70}},{"address.coord.0" : {$lt : -65.754168}}] });



9. Write a MongoDB query to update the restaurent's grade to 'B' whose score is more than or equal to 10.

db.restaurants.update({ grades : { $elemMatch : { "score":{ $gte : 10 } } } },{ $set: { grades: {"grade": "B"} } }, { multi: true});



10. Write a MongoDB query to delete the restaurents in borough Bronx.

db.restaurants.remove({"borough":"Bronx"})
Create Google Doc and paste your solution queries there and also paste screenshots of each query and its result in that doc.