#### **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":8));

{ "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "3012346" }

{ "borough" : "Brooklyn", "cuisine" : "Hamburgers", "name" : "Wendy'S", "restaurant_id" : "30112440" }

{ "borough" : "Brooklyn", "cuisine" : "Irish", "name" : "D] Reynolds Pub And Restaurant, "restaurant_id" : "30191841" }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "403560618" }

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

{ "borough" : "Queens", "cuisine" : "Jewish/Kosher", "name" : "Kosher Island", "restaurant_id" : "40356151" }

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

{ "borough" : "Brooklyn", "cuisine" : "Delicatessen", "name" : "Regina Caterers", "restaurant_id" : "403564483" }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Regina Caterers", "restaurant_id" : "403564649" }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Wild Asia", "restaurant_id" : "40357217" }

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

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

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "I East 661h Street Kitchen", "restaurant_id" : "40359480" }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "East 661h Street Kitchen", "restaurant_id" : "40350429 }

{ "borough" : "Brooklyn", "cuisine" : "American ", "name" : "East 661h Street Kitchen", "restaurant_id" : "40359480" }

{ "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "East 661h Street Kitchen", "restaurant_id" : "40360076" }

{ "borough" : "Brooklyn", "cuisine" : "Jewish/Kosher", "name" : "Carvel Ice Cream, "restaurant_id" : "40361390"
```

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

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

#### 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",
                             40.7624022
                  ],
"street" : "West 54 Street",
"zipcode" : "10019"
      "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
                             "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",
                                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
                                "grade" : "A",
"score" : 9
                                "grade" : "B",
"score" : 14
        ],
"name" : "Morris Park Bake Shop",
"restaurant_id" : "30075445"
        "_id" : ObjectId("5947bc1fb60c37c179375c49"),
                    "bultda..."; [
"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'
                    "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} } );

```
],
"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"
],
"street" : "10 Avenue",
"zipcode" : "11357"
},
"borough" : "Queens",
"cuisine" : "Italian",
"grades" : [
{
    "data"
```

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 : {  $\ensuremath{$}$  { "score":{  $\ensuremath{$}$  } },{  $\ensuremath{$}$  } }, { multi: true});

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

db.restaurants.remove( {"borough":"Bronx"} )