## Structure of 'restaurants' collection:

```
"address": {
   "building": "1007",
   "coord": [ -73.856077, 40.848447 ],
   "street": "Morris Park Ave",
   "zipcode": "10462"
},
"borough": "Bronx",
"cuisine": "Bakery",
"grades": [
  { "date": { "$date": 1393804800000 }, "grade": "A", "score": 2 },
  { "date": { "$date": 1378857600000 }, "grade": "A", "score": 6 },
  { "date": { "$date": 1358985600000 }, "grade": "A", "score": 10 },
  { "date": { "$date": 1322006400000 }, "grade": "A", "score": 9 },
   { "date": { "$date": 1299715200000 }, "grade": "B", "score": 14 }
"name": "Morris Park Bake Shop",
"restaurant id": "30075445"
```

- Write a MongoDB query to display all the documents in the collection restaurants.
   db.restaurants.find();
- **2.** Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for all the documents in the collection restaurant.

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

{ "_id": ObjectId("564c2d939eb21ad392f175c9"), "borough": "Manhattan", "cuisine": "Irish", "name": "Dj Reynolds Pub { "_id": ObjectId("564c2d939eb21ad392f175ca"), "borough": "Bronx", "cuisine": "Bakery", "name": "Morris Park Bake S
```

**3.** 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});
```

```
{ "borough" : "Manhattan", "cuisine" : "Irish", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_id" : "3019184 { "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant_id" : "30075445" } { "borough" : "Brooklyn", "cuisine" : "American ", "name" : "Riviera Caterer", "restaurant_id" : "40356018" }
```

4. Write a MongoDB query to display the fields restaurant\_id, name, borough and zip code, but exclude the field \_id for all the documents in the collection restaurant. db.restaurants.find({},{"restaurant\_id":1,"name":1,"borough":1,"address.zipcode":1,"\_id":0});

```
{ "address" : { "zipcode" : "10019" }, "borough" : "Manhattan", "name" : "Dj Reynolds Pub And Restaurant", "restaurant_ { "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "name" : "Morris Park Bake Shop", "restaurant_id" : "300754
```

- 5. Write a MongoDB query to display all the restaurant which is in the borough Bronx.
  db.restaurants.find({"borough": "Bronx"});
- 6. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx.
  db.restaurants.find({"borough": "Bronx"}).limit(5);
- 7. 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);
- 8. Write a MongoDB query to find the restaurants who achieved a score more than 90.
  db.restaurants.find({grades : { \$elemMatch:{"score":{\$gt : 90}}}});
- **9.** Write a MongoDB query to find the restaurants that achieved a score is more than 80 but less than 100.

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

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

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

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

**12.** Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a score more than 70 and located in the longitude less than - 65.754168.

**13.** Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a grade point 'A' not belongs to the borough Brooklyn.

The document must be displayed according to the cuisine in descending order.

**14.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.

```
db.restaurants.find(
{name: /^Wil/},
{
  "restaurant_id" : 1,
  "name":1,"borough":1,
  "cuisine" :1
}
);
```

**15.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'ces' as last three letters for its name.

```
db.restaurants.find(
{name: /ces$/},
{
  "restaurant_id" : 1,
  "name":1,"borough":1,
  "cuisine" :1
}
);
```

**16.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Reg' as three letters somewhere in its name.

```
db.restaurants.find(
{"name": /.*Reg.*/},
{
   "restaurant_id" : 1,
   "name":1,"borough":1,
   "cuisine" :1
}
);
```

**17.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which belong to the borough Staten Island or Queens or Bronxor Brooklyn.

```
db.restaurants.find(
    {"borough" :{$in :["Staten Island","Queens","Bronx","Brooklyn"]}},
    {
      "restaurant_id" : 1,
      "name":1,"borough":1,
      "cuisine" :1
    }
    );
```

18. Write a MongoDB query to find the restaurants which belong to the borough Bronx and prepared either American or Chinese dish.

**19.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which are not belonging to the borough Staten Island or Queens or Bronxor Brooklyn.

```
db.restaurants.find(
{"borough" :{$nin :["Staten Island","Queens","Bronx","Brooklyn"]}},
{
"restaurant_id" : 1,
"name":1,"borough":1,
"cuisine" :1
}
);
```

**20.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which achieved a score which is not more than 10.

**21.** Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which prepared dish except 'American' and 'Chinees' or restaurant's name begins with letter 'Wil'.

**22.** Write a MongoDB query to find the restaurant Id, name, and grades for those restaurants which achieved a grade of "A" and scored 11 on an ISODate "2014-08-11T00:00:00Z" among many of survey dates.

**23.** Write a MongoDB query to find the restaurant Id, name, and grades for those restaurants where the 2nd element of grades array contains a grade of "A" and score 9 on an ISODate "2014-08-11T00:00:00Z".

**24.** Write a MongoDB query to find the restaurant Id, name, address and geographical location for those restaurants where 2nd element of coord array contains a value which is more than 42 and upto 52.

**25.** Write a MongoDB query to arrange the name of the restaurants in ascending order along with all the columns.

db.restaurants.find().sort({"name":1});

**26.** Write a MongoDB query to arrange the name of the restaurants in descending along with all the columns.

```
db.restaurants.find().sort( {"name":-1} );
```

**27.** Write a MongoDB query to arranged the name of the cuisine in ascending order and for that same cuisine borough should be in descending order.

```
db.restaurants.find().sort({cuisine":1,"borough":-1,});
```

**28.** Write a MongoDB query to know whether all the addresses contains the street or not.

**29.** Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is double.

**30.** Write a MongoDB query which will select the restaurant Id, name and grades for those restaurants which returns 0 as a remainder after dividing the score by 7.

**31.** Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contains 'mon' as three letters somewhere in its name.

**32.** Write a MongoDB query to find the restaurant name, borough, longitude and attitude and cuisine for those restaurants which contain 'Mad' as first three letters of its name.