{

"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"

}

PFA the above sample data in “restaurants.json” attached with this document.

Import it in mongo test database

> mongoimport restaurants.json

1. Write a MongoDB query to display all the documents in the collection restaurants.

**ANS:**

**db.restaurants.find().pretty();**

2. Write a MongoDB query to display the fields restaurant\_id, name, borough and cuisine for all the documents in the collection restaurant.

**ANS:**

**db.restaurants.find({},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**

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.

**ANS:**

**db.restaurants.find({},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1,"\_id":0}).pretty();**

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.

**ANS:**

**db.restaurants.find({},{"restaurant\_id" : 1,"name":1,"borough":1,"address.zipcode" :1,"\_id":0}).pretty();**

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

**ANS:**

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

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

**ANS:**

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

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

**ANS:**

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

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

ANS:

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

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

**ANS:**

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

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

**ANS:**

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

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 latitude less than -65.754168.

**ANS:**

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

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.

Note : Do this query without using $and operator.

**ANS:**

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

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.

ANS:

**db.restaurants.find( { "cuisine" : {$ne : "American "},"grades.grade" :"A", "borough": {$ne : "Brooklyn"}} ).sort({"cuisine":-1}).pretty();**

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.

**ANS:**

**db.restaurants.find({name: /^Wil/},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**

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.

**ANS:**

**db.restaurants.find({name: /ces$/},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**

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.

**ANS:**

**db.restaurants.find({"name": /.\*Reg.\*/},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**

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

**ANS:**

**db.restaurants.find({ "borough": "Bronx" , $or : [{ "cuisine" : "American " },{ "cuisine" : "Chinese" }]}).pretty();**

18. 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.

**ANS:**

**db.restaurants.find({"borough" :{$in :["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**

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.

**ANS:**

**db.restaurants.find({"borough" :{$nin :["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**

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.

**ANS:**

**db.restaurants.find({"grades.score" : { $not: {$gt : 10}}},{"restaurant\_id" : 1,"name":1,"borough":1,"cuisine" :1}).pretty();**