{

"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.

**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.

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

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})**

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})**

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

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

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

**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.

**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.

**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.

**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.

**db.restaurants.find({"address.coord.0":{$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.

**db.restaurants.find({"cuisine":{$ne:"American "},grades:{$elemMatch:{score:{$gt:70}}},"address.coord.0":{$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.

**db.restaurants.find({"cuisine":{$ne:"American "},grades:{$elemMatch:{score:{$gt:70}}},"address.coord.1":{$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.

**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.

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

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

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

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

**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 Bronx or Brooklyn.

**db.restaurants.find({$or:[{borough:"Staten Island"},{borough:"Bronx"},{borough:"Queens"},{borough:"Brooklyn"}]},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1,\_id:0}).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 Bronx or Brooklyn.

**db.restaurants.find({"borough":{$nin:["Staten Island","Queens","Bronx","Brooklyn"]}},{"restaurant\_id":1,"name":1,"borough":1,"cuisine":1,\_id:0}).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.

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