{

"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()**

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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})**

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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})**

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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()**

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

**Ans:-**

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

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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()**

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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"}).limit(5).skip(5).pretty()**

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

**Ans:-**

**db.restaurants.find({"grades.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({$and : [{"grades.score":{$gt:80}},{"grades.score":{$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()**

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

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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({$and: [{ "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();**

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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();**

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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();**

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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({$and:[{"borough":"Bronx"}, {$or:[{"cuisine":"American"},{"cuisine":"Chinese"}]}]}).pretty()**

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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();**