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**Assignment:- 12**

1. **Create Database:**

> use Restaurants

switched to db Restaurants

1. **Create Collection:**

> db.createCollection("REST1")

{ "ok" : 1 }

1. **Insert Sample Documents:**

> db.REST1.insert({

... "address": {

... "building": "1007",

... "coord": [ -73.856077, 40.848447 ],

... "street": "Morris Park Ave",

... "zipcode": "10462"

... },

... "borough": "Bronx",

... "cuisine": "Bakery",

... { "date": { "$date": 1393804800000 }, "grade": "A", "score": { "date": { "$date": 1378857600000 }, "grade": "A", "score": { "date": { "$date": 1358985600000 }, "grade": "A", "score": { "date": { "$date": 1322006400000 }, "grade": "A", "score": { "date": { "$date": 1299715200000 }, "grade": "B", "score": 14 } { "date": { "$date": 1299715200000 }, "grade": "B", "scor

... ],

... "name": "Morris Park Bake Shop",

... "restaurant\_id": "30075445"

... })

WriteResult({ "nInserted" : 1 })

1. **Display all documents in the collection:**

> db.REST1.find().pretty()

{

"\_id" : ObjectId("6707c03fa2df0be884326658"),

"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"

}

1. **Display specific fields (restaurant\_id, name, borough, cuisine):**

> db.REST1.find({}, { restaurant\_id: 1, name: 1, borough: 1, cuisine: 1 })T1.find({}, { restaurant\_id: 1, name: 1, borough: 1, cuisi

{ "\_id" : ObjectId("6707c03fa2df0be884326658"), "borough" : "Bronx", "cuisine" : "Bakery", "name" : "Morris Park Bake Shop", "restaurant\_id" : "30075445" }

1. **Display all restaurants in the borough Bronx:**

> db.REST1.find({ borough: "Bronx" })

{ "\_id" : ObjectId("6707c03fa2df0be884326658"), "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" }

1. **Display restaurant\_id, name, borough, and zip code but exclude \_id:**

> db.REST1.find({}, { \_id: 0, restaurant\_id: 1, name: 1, borough: 1, "address.zipcode": 1 }) 0, restaurant\_id: 1, name: 1, borough:

{ "address" : { "zipcode" : "10462" }, "borough" : "Bronx", "name" : "Morris Park Bake Shop", "restaurant\_id" : "30075445" }

1. **Find restaurants with a score more than 90:**

> db.REST1.find({ grades: { $elemMatch: { score: { $gt: 90 } } } }) db.REST1.find({ grades: { $elemMatch: { score: { $gt: 90 } } } }

1. **Find restaurants with a score more than 80 but less than 100:**

> db.REST1.find({ grades: { $elemMatch: { score: { $gt: 80, $lt: 100 } } } })find({ grades: { $elemMatch: { score: { $gt: 80, $lt: 1