**MongoDB Complex Queries**

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

db.addresses.find()

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

db.addresses.find({},{'restaurant\_id':1,'name':1,'borough':1,'cuisine':1})

1. 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.addresses.find({},{'restaurant\_id':1,'name':1,'borough':1,'cuisine':1,\_id:0})

1. 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.addresses.find({},{'restaurant\_id':1,'name':1,'borough':1,'address.zipcode':1,\_id:0})

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

db.addresses.aggregate([{$match:{borough:'Bronx'}},{$limit:5}])

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

db.addresses.aggregate([{$match:{borough:'Bronx'}}])

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

db.addresses.aggregate([{$match:{borough:'Bronx'}},{$skip:5},{$limit:5}])

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

db.addresses.aggregate({$match:{"grades.score":{$gt:90}}})

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

db.addresses.aggregate({$match:{"grades.score":{$gt:80,$lt:100}}})

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

db.addresses.aggregate({$match:{'address.coord.0':{$lt:-95.754168}}})

1. 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.addresses.aggregate({$match:{$and:[{cuisine:{$ne:"American "}},{"grades.score":{$gt:70}},{"address.coord.0":{$lt:-65.754168}}]}})

1. 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.

db.addresses.aggregate({$match:{$and:[{cuisine:{$ne:"American "}},{"grades.score":{$gt:70}},{"address.coord.1":{$lt:-65.754168}}]}})

1. 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.addresses.aggregate({$match:{$and:[{cuisine:{$ne:"American "}},{"grades.grade":"A"},{borough:{$ne:"Brooklyn"}}]}},{$sort:{cuisine:-1}})

1. 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.addresses.find( { name: /^Wil/ }, { "restaurant\_id": 1, "name": 1, "borough": 1, "cuisine": 1 })

1. 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.addresses.find( { name: /ces$/ }, { "restaurant\_id": 1, "name": 1, "borough": 1, "cuisine": 1 })

1. 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.addresses.find( { name: /Reg/ }, { "restaurant\_id": 1, "name": 1, "borough": 1, "cuisine": 1 })

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

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

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

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

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

1. 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'.

db.addresses.find({$or: [{name: /^Wil/}, {"$and": [{"cuisine": {$ne :"American "}}, {"cuisine" : {$ne :"Chinees"}}]}]}, {"restaurant\_id" : 1, "name":1, "borough":1, "cuisine" :1 }).pretty()

1. 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..

db.addresses.find({ "grades.date": ISODate("2014-08-11T00:00:00Z"), "grades.grade": "A" , "grades.score" : 11}, {"restaurant\_id" : 1, "name":1, "grades":1 }).pretty()

1. 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"

db.addresses.find({ "grades.1.date": ISODate("2014-08-11T00:00:00Z"), "grades.1.grade": "A" , "grades.1.score" : 9}, {"restaurant\_id" : 1, "name":1, "grades":1}).pretty()

1. 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..

db.restaurants.find({ "address.coord.1": {$gt : 42, $lte : 52}}, {"restaurant\_id" : 1, "name":1,"address":1,"coord":1}).pretty()

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

db.addresses.find().sort({"name": 1}).pretty()

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

db.addresses.find().sort({"name": -1}).pretty()

1. 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.addresses.find().sort({"cuisine": 1, "borough": -1,}).pretty()

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

db.addresses.find({"address.street": {$exists: true}}).pretty()

1. Write a MongoDB query which will select all documents in the restaurants collection where the coord field value is Double.

db.addresses.find({"address.coord" : {$type : 1}}).pretty()

1. 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.

db.addresses.find({"grades.score" : {$mod : [7,0]}}, {"restaurant\_id" : 1,"name": 1, "grades": 1}).pretty()

1. 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.

db.addresses.find({ name : { $regex : "mon.\*"}}, { "name":1, "borough": 1, "address.coord":1, "cuisine" :1}).pretty()

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

db.addresses.find({name : { $regex : /^Mad/}}, {"name":1, "borough":1, "address.coord":1, "cuisine" :1 }).pretty()