MongoDB Complex Queries

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

db.addresses.find().pretty()

Q.2] 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}).pretty()

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

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

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

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

Q.6] Write a MongoDB query to display all the restaurant which is in the borough Bronx.

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

Q.7] 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}]).pretty()

Q.8] Write a MongoDB query to find the restaurants who achieved a score more

than 90.

db.addresses.find({"grades.score":{$gt:90}}).pretty()

Q.9] Write a MongoDB query to find the restaurants that achieved a score, more

than 80 but less than 100.

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

Q.10]Write a MongoDB query to find the restaurants which locate in latitude value

less than -95.754168.

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

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

Q.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.

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

Q.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.addresses.find({"cuisine":{$ne:"American "},"grades.grade":"A","borough":{$ne :"Brooklyn"}}).sort({"cuisine": -1}).pretty()

Q.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.addresses.find({name:{$regex: "^Wil"}},{restaurant\_id:1, name:1, borough:1, cuisine:1}).pretty()

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

Q.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.addresses.find({name:{$regex: /Reg/i}},{restaurant\_id:1, name:1, borough:1, cuisine:1}).pretty()

Q.17]Write a MongoDB query to find the restaurants which belong to the borough

Bronx and prepared either American or Chinese dish.

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

Q.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.

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

Q.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.

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

Q.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.addresses.find({"grades.score":{$lte:10}},{restaurant\_id:1, name:1, borough:1, cuisine:1}).pretty()

Q.21] 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:"Chinese"}}]}]},{restaurant\_id:1,name:1,borough:1,cuisine:1}).pretty()

Q.22] 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()

Q.23] 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()

Q.24] 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.addresses.find({"address.coord.1":{$gt:42,$lte:52}},{restaurant\_id:1,name:1,address:1,coord:1}).pretty()

Q.25] 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()

Q.26] 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()

Q.27] 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()

Q.28] . Write a MongoDB query to know whether all the addresses contains the street

or not.

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

Q.29] 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()

Q.30] 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()

Q.31] Write a MongoDB query to find the restaurant name, borough, longitude and

lattitude and cuisine for those restaurants which contains 'mon' as three letters

somewhere in its name.

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

Q.32] 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()