ASSIGNMENT 3:

1

db.getCollection('addresses').find({})

2

db.getCollection('addresses').aggregate([

{$project:{restaurant\_id:1,name:1,borough:1,cuisine:1}}])

Or

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

3

db.getCollection('addresses').aggregate([

{$project:{\_id:0,restaurant\_id:1,name:1,borough:1,cuisine:1}}])

4

db.getCollection('addresses').aggregate([

{$project:{\_id:0,restaurant\_id:1,name:1,borough:1,"address.zipcode":1}}])

5

db.getCollection('addresses').aggregate([

{$match:{borough:"Bronx"}},

{$limit:5}])

6

db.getCollection('addresses').aggregate([

{$match:{borough:"Bronx"}}])

7

db.getCollection('addresses').aggregate([

{$match:{borough:"Bronx"}},

{$skip:5},

{$limit:5}])

Or

db.getCollection('addresses').find({borough:"Bronx"}).skip(5).limit(5)

8

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{"grades.score":{$gt:90}}}])

9

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{"grades.score":{$gt:80,$lt:100}}}])

10

db.getCollection('addresses').aggregate([

{$match:{"address.coord.0":{$lt:-95.754168}}},

/\*{$sort:{"address.coord":1}}\*/])

11

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

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

12

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

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

13

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{$and:[{cuisine:{$ne:"American "},"grades.grade":"A",borough:{$ne:"Brooklyn"}}]}},

{$sort:{cuisine:-1}}])

14

db.getCollection('addresses').aggregate([

{$match:{name:{$regex:/^Wil.\*/}}},

{$project:{restaurant\_id:1,name:1,borough:1,cuisine:1}}])

15

db.getCollection('addresses').aggregate([

{$match:{name:{$regex:/.\*ces$/}}},

{$project:{restaurant\_id:1,name:1,borough:1,cuisine:1}}])

16

db.getCollection('addresses').aggregate([

{$match:{name:{$regex:/Reg/}}},

{$project:{restaurant\_id:1,name:1,borough:1,cuisine:1}}])

17

db.getCollection('addresses').aggregate([

{$match:{borough:"Bronx",cuisine:{$in:["American ","Chinese"]}}},

{$project:{name:1,cuisine:1,borough:1}},

{$sort:{cuisine:1}}])

18

db.getCollection('addresses').aggregate([

{$match:{$or:[{borough:'Staten Island'}, {"borough": "Bronxor Brooklyn"}, {"borough": "Queens"}]}},

{$project:{name:1,cuisine:1,borough:1,restaurant\_id:1}},

{$sort:{cuisine:1}}])

19

db.getCollection('addresses').aggregate([

{$match:{borough:{$nin:["Staten Island","Queens","Bronxor Brooklyn"]}}},

{$project:{name:1,cuisine:1,borough:1,restaurant\_id:1}},

{$sort:{cuisine:1}}])

20

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{"grades.score":{$lt:10}}},

{$project:{name:1,cuisine:1,borough:1,restaurant\_id:1,'grades.score':1}},

{$sort:{cuisine:1}}])

21

db.getCollection('addresses').aggregate([

{$match:{$or:[{cuisine:{$nin:["American ","Chinese"]}},{name:{$regex:/^Wil/}}]}},

{$project:{name:1,cuisine:1,borough:1,restaurant\_id:1}},

{$sort:{cuisine:1}}])

22

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{"grades.grade":"A","grades.score":11,"grades.date":ISODate("2014-08-11T00:00:00Z")}},

{$project:{name:1,grades:1,restaurant\_id:1}},

{$sort:{cuisine:1}}])

Or

db.getCollection('addresses').find(

{"grades" : {$elemMatch: {"date": ISODate("2014-08-11T00:00:00Z"), "grade":"A", "score":11}}},

{\_id:0, restaurant\_id:1, name:1, grades:1})

23

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{"grades.grade":"A","grades.score":9,"grades.date":ISODate("2014-08-11T00:00:00Z")}},

{$project:{name:1,grades:1,restaurant\_id:1}},

{$sort:{cuisine:1}}])

Or

db.getCollection("addresses").find({$and: [{"grades.1.grade":"A"}, {"grades.1.score": 9}, {"grades.1.date": ISODate("2014-08-11T00:00:00Z")}]},

{\_id:0, restaurant\_id:1, name:1, grades:1}).pretty()

24

db.getCollection('addresses').aggregate([

{$match:{$and:[{"address.coord.1":{$gt:42}},{"address.coord.1":{$lt:52}}]}},

{$project:{name:1,address:1,restaurant\_id:1}}])

25

db.getCollection('addresses').aggregate([

{$sort:{name:1}},

{$project:{name:1,\_id=0}}])

26

db.getCollection('addresses').aggregate([

{$sort:{name:-1}},

{$project:{name:1,\_id=0}}])

27

db.getCollection('addresses').aggregate([

{$sort:{cuisine:1,borough:-1}},

{$project:{cuisine:1,borough:1}}])

28

With street

db.getCollection('addresses').aggregate([

{$match:{"address.street":{$regex:/Street/}}},

{$project:{"address.street":1}}])

Without street

db.getCollection('addresses').aggregate([

{$match:{"address.street":{$ne:{$regex:/Street/}}}},

{$project:{"address.street":1}}])

29

db.getCollection('addresses').aggregate([

{$match:{"address.coord":{$type:"double"}}},

{$project:{"address.coord":1}}])

30

db.getCollection('addresses').aggregate([

{$unwind:"$grades"},

{$match:{"grades.score":{$mod:[7,0]}}},

{$project:{restaurant\_id:1,name:1,"grades":1}}])

31

db.getCollection('addresses').aggregate([

{$match:{name:{$regex:/mon/}}},

{$project:{restaurant\_id:1,name:1,borough:1,"address.coord":1,cuisine:1}}])

32

db.getCollection('addresses').aggregate([

{$match:{name:{$regex:/^Mad.\*/}}},

{$project:{restaurant\_id:1,name:1,borough:1,"address.coord":1,cuisine:1}}])