```
"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 }
1,
"name": "Morris Park Bake Shop",
"restaurant_id": "30075445"
```

```
1. Write a MongoDB query to display all the documents in the collection restaurants.
=> db.restaurants.find()
2. Write a MongoDB query to display the fields restaurant_id, borough and cuisine,
but exclude the field _id and name for all the documents in the collection restaurant.
=> db.restaurants.find(
      {
      },
      {
             restaurant_id:1,borough:1,cuisine:1,_id:0
      }
)
3. Write a MongoDB query to find the number of restaurant which is in the borough
Abc.
=> db.restaurants.count(
      {
             borough: "Abc"
      }
)
4. Write a MongoDB query to display the first 4 restaurant which is in the borough
Bronx.
=> db.restaurants.find(
      {
             borough: "Bronx"
      }
).limit(4)
5. Write a MongoDB guery to display the next 3 restaurants after skipping first 4
which
are in the borough Bronx.
=> db.restaurants.find(
      {
```

```
borough: "Bronx"
      }
).skip(4).limit(3)
6. Write a MongoDB query to find the restaurants that achieved a score, less than 40
but more than 10.
=> db.restaurants.find(
      {
             "grades.score": {$lt:40, $gt:10}
      }
7. Write a MongoDB query to find the restaurants which locates in latitude value
greater
than 95.754168
=> db.restaurants.find(
      {
             "address.coord": {$gt:-95.754168}
      }
)
8. Write a MongoDB query to find the restaurants that does not prepare any cuisine of
'American' and their grade score more than 70 and longitude less than 65.754168.
=> db.restaurants.find(
      {
             $and: [
                   {"cuisine": {$ne:"American"}},
                   {"grades.score": {$gt:70}},
                   {"address.coord": {$lt:-65.754168}}
             1
      }
)
```

9. Write a MongoDB query to find the restaurants which does 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.

10.Write a MongoDB query to find the restaurants which does not prepare any cuisine of 'American' and achieved a score more than 70 and not located in the longitude less than -65.754168. Note: Do this query without using \$and operator.

11. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contains 'Wil' as first three letters for its name.

12. 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 "201408"

```
11T00:00:00Z" among many of survey dates.
=> //wont work
db.restaurants.find(
      {
             "grades.date": ISODate("2014-08-11T00:00:00Z"), "grades.grade": "A",
             "grades.score": 11
      },
      {
             "restaurant_id": 1, "name": 1, "grades": 1
      }
)
=>//works
db.restaurants.find(
      {
             grades: { $elemMatch: {date: new Date("2014-08-11T00:00:00Z")}},
                   "grades.grade": "A",
                   "grades.score": 11
      },
      {
             "restaurant_id": 1, "name": 1, "grades": 1
      }
)
13. Write a MongoDB query to arranged the name of the cuisine in descending order
and for those same cuisine borough should be in ascending order.
=> db.restaurants.find(
).sort(
      {cuisine:-1,borough:1,}
)
```

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

```
=> db.restaurants.find(
      {
             "address.street" : { $exists : true }
      }
)
15. Write a MongoDB guery which will select the restaurant Id, name and grades for
those restaurants which returns 0 as a remainder after dividing the score by 5.
=> db.restaurants.find(
      {
             "grades.score" : {$mod : [5,0]}
      },
      {
             "restaurant_id": 1, "name": 1, "grades": 1
      }
)
16. Write a mongo db query that returns cuisine wise restaurants.
=> db.restaurants.aggregate([
      {
             "$group": { id: "$cuisine", count: {$sum: 1}}
      }
1)
17. Write a mongoDb query for calculating cuisine wise total and average budget(2
queries..one for total and one for average).
18. Write a mongodb query to get all the restaurants that has maximum revenue in
their cuisine.
19. Write a mongodb query to update to change the score to 60 where the score is 6.
=> //only one updating
db.restaurants.update(
```

```
{
             "grades.score": 6
      },
      {
             $set:{"grades.$.score":60}
      }
)
=> //correct
db.restaurants.update(
       {
      },
       {
             $set: { "grades.$[element].score" : 12 }
      },
      {
             multi: true, arrayFilters: [{"element.score":{$eq:120}}]
      }
)
```

- 20. Create a seperate collection which includes restaurant id and revenue .Update revenue from that collection into this.
- 21. Copy this collection to a different database named test and collection name copy and drop the current database.

use learning

## db.dropDatabase()

22. Backup the earlier database and restore it in another one.

=> mongodump

mongorestore