

Assignment 3

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

```
-->db.addresses.find().pretty()
```

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.aggregate([  
... {$project: {name: 1,borough: 1,cuisine: 1}}  
... ])
```

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.aggregate([  
... {$project: {_id: 0,name: 1,borough: 1,cuisine:1}}  
... ])
```

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.aggregate([  
... {$project:{_id: 0, restaurant_id: 1,name: 1,borough: 1,zipcode: 1}}  
... ])
```

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

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

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

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

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

```
-->db.addresses.aggregate([  
  { $skip : 5 },  
  {$match: {borough: "Bronx"}},  
  {$limit: 5}  
])
```

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

```
-->db.addresses.find({"grades.score": {$gt: 90}})
```

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

```
-->db.addresses.find({$and: [{"grades.score": {$gt: 80}}, {"grades.score": {$lt: 100}]})
```

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

```
-->db.addresses.find({"address.coord.0" : {$lt : -95.754168}})
```

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({$and: [{"cuisine": {$ne: "American"}}, {"grades.score": {$gt: 70}}]})
```

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

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

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/i}}, {_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
```

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" : { $regex: /. *ces$/}}, {_id:0,
```

```
restaurant_id:1, name:1, borough:1, cuisine:1})
```

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/}}, {_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
```

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({borough: "Bronx", cuisine: {$in: ["American", "Chinese"]}}, {_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
```

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 Bronx or Brooklyn.

```
-->db.addresses.find({$or: [{"borough": "Staten Island"}, {"borough": "Bronx"}, {"borough": "Brooklyn"}, {"borough": "Queens"}]}, {_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
```

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 Bronx or Brooklyn.

```
-->db.addresses.find( {borough: {$nin: ["Staten Island", "Queens", "Bronx", "Brooklyn"]}} , {_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
```

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.

```
-->.addresses.find({"grades.score": {$lte: 10}}, {_id:0, restaurant_id:1, name:1, borough:1, cuisine:1})
```

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({$nor: [{cuisine:{$in: ["American",  
    "Chinese"]}}, {name:    /^wil.*/}]},{_id:0, restaurant_id:1,  
    name:1,    borough:1, cuisine:1})
```

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" : {$elemMatch: {"date":  
    ISODate("2014-08-11T00:00:00Z"),    "grade":"A", "score":11}}},  
    {_id:0, restaurant_id:1, name:1, grades:1})
```

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({$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})
```

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({$and : [{"address.coord.1":{$gt :42}}, {"address.coord.1":  
    {$lte : 52}}]}, {_id:0, restaurant_id:1, name:1, address:1})
```

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})
```

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

```
--> db.addresses.find({}, {_id:0, name:1}).sort( {name: -1})
```

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({}, {_id:0, cuisine:1,      borough:1}).sort({cuisine: 1, borough: -1})
```

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

```
-->db.addresses.find({"address.street": {$regex: /Street/}})
```

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: "double"}}, {_id:0, address:1})
```

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": {$elemMatch: {"score": {$mod: [7,0]}}}}, {_id:0, restaurant_id:1, name:1, grades:1})
```

31. 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/}}, {_id:0, name:1, borough:1, "address.coord":1, cuisine:1})
```

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: {$regex: /^Mad.*$/}}, {_id:0, name:1, borough:1,
"address.coord":1, cuisine:1})
```