MongoDB Restaurant Aufgabe

#INSY #STO

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, name, borough and cuisine for all the documents in the collection restaurant.
   `db.restaurants.find({}, {restaurant_id: 1,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.restaurants.find({}, {_id: 0,restaurant_id: 1,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.restaurants.find({}, {_id: 0,restaurant_id: 1,name: 1,borough: 1,"address.zipcode": 1,})`
5. Write a MongoDB query to display all the restaurant which is in the borough Bronx.
   `db.restaurants.find({borough: 'Bronx'})`
6. Write a MongoDB query to display the first 5 restaurant which is in the borough Bronx.
   `db.restaurants.find({borough: 'Bronx'}).limit(5)`
7. Write a MongoDB query to display the next 5 restaurants after skipping first 5 which are in the borough Bronx.
   `db.restaurants.find({borough: 'Bronx'}).skip(5).limit(5)`
8. Write a MongoDB query to find the restaurants who achieved a score more than 90.
   `db.restaurants.find({"grades.score": {$gt:90}})`
9. Write a MongoDB query to find the restaurants that achieved a score, more than 80 but less than 100.
   `db.restaurants.find({"grades.score": {$gt:80,$lt:100}})`
10. Write a MongoDB query to find the restaurants which locate in latitude value less than -95.754168.
    `db.restaurants.find( { "address.coord.0": { "$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.restaurants.find( { "address.coord.0": { "$lt": -65.754168 }, "grades.score": { "$gt": 70 }, "cuisine": { "$ne": "American " } })`
12. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a score more than 70 and located in the longitude less than -65.754168.
    Note : Do this query without using and operator. `db.restaurants.find( { "address.coord.1": { " lt": -65.754168 }, "grades.score": { "gt": 70 }, "cuisine": { " ne": "American " } })`
    (KEINE AUSGABE!!!!)
13. Write a MongoDB query to find the restaurants which do not prepare any cuisine of 'American' and achieved a grade point 'A' not belongs to the borough Brooklyn. The document must be displayed according to the cuisine in descending order.
    `db.restaurants.find( { "grades.grade": "A", "cuisine": { "$ne": "American" }, "borough": { "$ne": "Brooklyn"} },{} ).sort({ cuisine: -1 })`
14. Write a MongoDB query to find the restaurant Id, name, borough and cuisine for those restaurants which contain 'Wil' as first three letters for its name.
    `db.restaurants.find({ "name": { "$regex": "^Wil" }}, { _id: 0, restaurant_id: 1, name: 1, borough: 1, cuisicuisine: 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.restaurants.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.restaurants.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.restaurants.find( { "borough": "Bronx", "$or": [ { "cuisine": "American " }, { "cuisine": "Chinese" } ] } )
```

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.restaurants.find({ "borough": { "$in": ["Staten Island","Queens","Bronx","Brooklyn"] } }, { _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 Bronxor Brooklyn.

```
db.restaurants.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.

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