

TP noté : NoSQL

Exercice 1 : MongoDB (Documents)

Soit la structure de la collection «**restaurants**» suivante :

```
{
  "borough": "Bronx",
  "cuisine": "Bakery",
  "grades": [
    { "date": "06/09/2021" , "grade": "A", "score": 2 },
    { "date": "16/10/2021", "grade": "A", "score": 6 }
  ],
  "name": "Morris Park Bake Shop"
}
```

1. Créer la collection «**restaurants**».
2. Insérer les données dans la collection.
3. Afficher les données de la collection.
4. Mettre à jour la collection en ajoutant dans la même collection les données suivantes.

```
"address": {
  "building": "1007",
  "coord": [ -73.856077, 40.848447 ],
  "street": "Morris Park Ave",
  "zipcode": "10462"
}
```

Ajouter dans grades les dates suivantes :

```
{ "date": "25/10/2021", "grade": "A", "score": 10 },
{ "date": "01/12/2021", "grade": "A", "score": 9 },
{ "date": "26/01/2022", "grade": "B", "score": 14 }
```

5. Afficher les documents qui possèdent le code postal 10462.
6. Afficher les documents qui ont eu un grade en 2022.
7. Ajouter les restaurants suivants à la collection :
{ "address": { "building": "469", "coord": [-73.961704, 40.662942], "street": "Flatbush Avenue",
"zipcode": "11225"}, "borough": "Brooklyn", "cuisine": "Hamburgers", "grades":
[{"date": {"\$date": 1419897600000}, "grade": "A", "score": 8}, {"date": {"\$date": 1404172800000},
"grade": "B", "score": 23}, {"date": {"\$date": 1367280000000}, "grade": "A", "score": 12}, {"date":
{"\$date": 1336435200000}, "grade": "A", "score": 12}], "name": "Wendy'S", "restaurant_id":
"30112340"}
{ "address": { "building": "351", "coord": [-73.98513559999999, 40.7676919], "street": "West
57 Street", "zipcode": "10019"}, "borough": "Manhattan", "cuisine": "Irish", "grades": [{"date":
{"\$date": 1409961600000}, "grade": "A", "score": 2}, {"date": {"\$date": 1374451200000}, "grade":
"A", "score": 11}, {"date": {"\$date": 1343692800000}, "grade": "A", "score": 12}, {"date": {"\$date":
1325116800000}, "grade": "A", "score": 12}], "name": "Dj Reynolds Pub And Restaurant",
"restaurant_id": "30191841"}
- 8. Afficher les restaurants dont le nom commence par "M"
- 9. Afficher le nombre de restaurants
- 10. Afficher le nom du restaurant proposant la cuisine irlandaise
- 11. Afficher les restaurants triés par nom dans l'ordre croissant