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G2

Exercice 3:

- 1) db.restaurants.find().sort({"name":-1}).pretty()
- 2) db.restaurants.find( {"cuisine": "Italian"} , {"name":1,"address.zipcode": 1,"address.coord":1})
- 3) db.restaurants.find( {"cuisine": "Italian","address.zipcode":{"\$gt": "10075"},"telephoneNumber":{"\$exists: true}}})
- 4) db.restaurants.find({\$or:[ {"cuisine":"Italian"}, {"address.zipcode": "10075"} ]})

Exercice 4 :

- 1) db.restaurants.update({"cuisine": "Other","address.zipcode":"10016"}, { \$set: {"cuisine":"Cuisine to be determined"}}, { multi : true } )
- 2)db.restaurants.update({"restaurant\_id":"41154403"},{\$set : {"name":"Vella 2", "address":{"city" : "1480", "street" : "2 Avenue", "zipcode" : "10075"}}}})

Exercice 5 :

- 1) db.restaurants.aggregate( [ {\$group : {\_id: "\$cuisine", total: { \$sum: 1 } } } ] )
- 2) db.restaurants.aggregate( [ {\$match: {"cuisine":"Italian"}}, {\$group : {\_id: "\$address.zipcode", total: { \$sum: 1 } } } ] )

Exercice 6 :

- 1) db.createCollection(« comments »)
- 2)  
db.comments.insert({"\_id": "1","restaurent\_id": "41446358", "name\_client" : "Dupont", "comment" : "pas ouf", "type" : "4"})  
db.comments.insert({"\_id": "2","restaurent\_id": "41446358", "name\_client" : "Dupont", "comment" : "vraiment pas ouf", "type" : "2"})  
db.comments.insert({"\_id": "3","restaurent\_id": "41636858", "name\_client" : "Depierre", "comment" : "très bien", "type" : "8"})  
db.comments.insert({"\_id": "4","restaurent\_id": "50017605", "name\_client" : "Duchamps", "comment" : "pas bien", "type" : "3"})  
db.comments.insert({"\_id": "5","restaurent\_id": "41590236", "name\_client" : "Delamontage", "comment" : "bien", "type" : "6"})  
db.comments.insert({"\_id": "6","restaurent\_id": "40763382", "name\_client" : "Deschamps", "comment" : "Benzema me manque", "type" : "10"})
- 3)  
db.comments.aggregate([  
    \$lookup: {  
        from: "restaurants",

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        localField: "restaurent_id",  
        foreignField: "restaurant_id",  
        as: "name_restaurant"}  
    } ])
```

Exercice 7 :

1)

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db.restaurants.find( {"cuisine": "Italian"} , {"name":1,"address.zipcode":  
1,"address.coord":1}).explain({"executionStats":1})
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2)

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db.restaurants.createIndex( { cuisine: -1 } )
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3)

La requête précédente se fait « plus rapidement » avec l’index : elle parcourt 1070 documents contre la totalité sans index (25356).