Correction Examen Donation

I.1. Entités/associations

(5.5points):



Table CroissantRouge



Table Don (Avec Foreign Key)

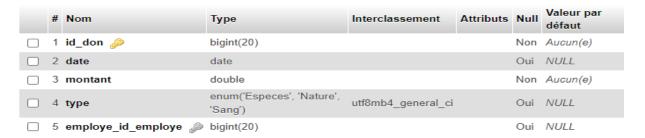


Table Association croissantRouge_don



Table Employe(Avec Foreign Key)

# Nom	Туре	Interclassement	Attributs	Null	Valeur par défaut
☐ 1 id_employe	bigint(20)			Non	Aucun(e)
2 nom_employe	varchar(255)	utf8mb4_general_ci		Oui	NULL
☐ 3 poste	varchar(255)	utf8mb4_general_ci		Oui	NULL
4 prenom_employe	varchar(255)	utf8mb4_general_ci		Oui	NULL
5 entreprise_id_entreprise	bigint(20)			Oui	NULL

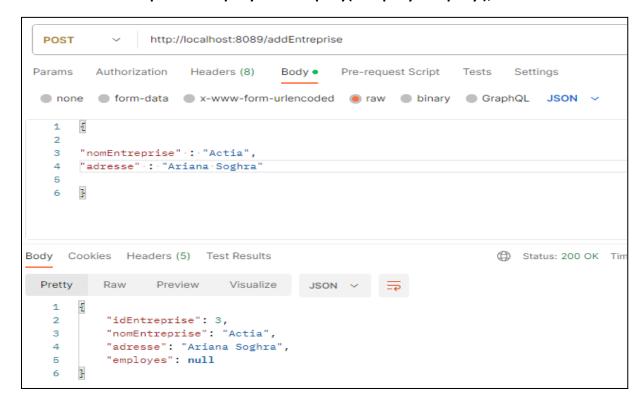
Table Entreprise

#	Nom	Туре	Interclassement	Attributs	Null	Valeur par défaut (
1	id_entreprise 🔑	bigint(20)			Non	Aucun(e)
2	adresse	varchar(255)	utf8mb4_general_ci		Oui	NULL
3	nom_entreprise	varchar(255)	utf8mb4_general_ci		Oui	NULL

I.2. Services (14 points):

Question 1.

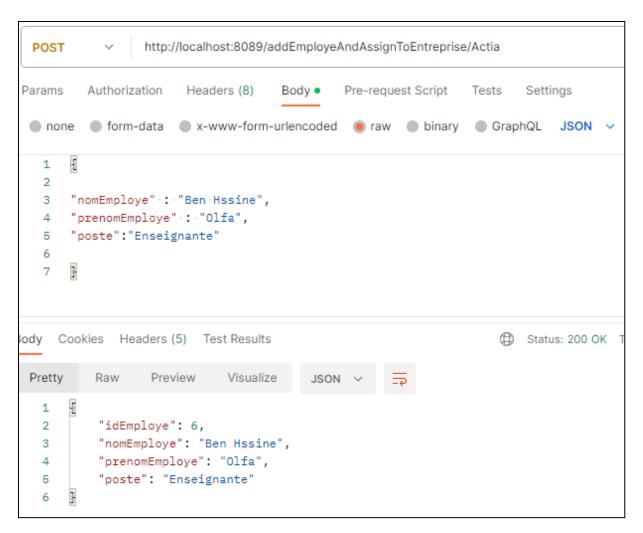
public Company addCompany(Company company);





Question 2.

public Employe addEmployeAndAssignToCompany(Employe employe, String campanyName);



id_employe	nom_employe	poste	prenom_employe	entreprise_id_entreprise
1	Sofrecom	Ingenieur	Lac1	1
2	Hamdi	Ingenieur	Amine	1
3	Ben Hssine	Enseignante	Olfa	2
6	Ben Hssine	Enseignante	Olfa	3

Question 3.

public Donation addDonation(Donation donation);

```
POST
                  http://localhost:8089/addDon
          Authorization
                      Headers (8)
                                     Body •
                                            Pre-request Script Tests
                                                                        Settings
Params
  none form-data x-www-form-urlencoded raw binary GraphQL JSON v
   1
        ····"date": "2023-11-28",
        ····"type": "Sang",
   5
        ····"employe":{
        ··· "idEmploye": 3
    8
Body Cookies Headers (5) Test Results
                                                                     (f) Status: 200 OK
  Pretty
           Raw
                   Preview
                              Visualize
                                          JSON V
   1
   2
           "idDon": 11,
           "montant": 0.0,
   3
   4
           "date": "2023-11-28T00:00:00.000+00:00",
           "type": "Sang",
   5
           "employe": {
   6
   7
               "idEmploye": 3,
               "nomEmploye": null,
   8
               "prenomEmploye": null,
   9
               "poste": null
  10
  11
```

id_don	date	montant	type	employe_id_employe	
5	2023-11-28	150	Especes	3	
6	2023-11-28	0	Sang	2	
7	2023-11-29	0	Sang	3	
8	2023-11-29	0	Sang	1	
9	2023-11-29	200	Especes	1	
10	2023-11-29	1000	Especes	2	
11	2023-11-28	0	Sang	3	

Question 4.

AOP

INFO 9512 --- [nio-8089-exec-8] t.esprit.donation.aspect.LoggingAspect : Merci pour ce don

```
@Component
@Aspect
@Slf4j
public class LoggingAspect {

    @AfterReturning("execution(* tn.esprit.donation.services.ServiceIMP.addDon(..))")
    public void logMethodEntry(JoinPoint joinPoint){
        String name = joinPoint.getSignature().getName();
        log.info("Merci pour ce don ");
    }
}
```

Question 5.

public Set getDonationByType(DonationType type);

En Utilisant JPQL

```
public interface DonRepository extends JpaRepository<Don,Long> {
    1usage
    public Set<Don> findByType(TypeDons type) ;
```

```
GET
                   http://localhost:8089/getDonByType/Especes
Params
          Authorization
                         Headers (6)
                                       Body Pre-request Script
                                                                  Tests Settings
Body Cookies Headers (5) Test Results
                                                                        Status: 200 O
  Pretty
           Raw
                    Preview
                               Visualize
   1
    2
                "idDon": 5,
    3
                "montant": 150.0,
    4
                "date": "2023-11-28",
    5
                "type": "Especes",
    6
                 "employe": {
                    "idEmploye": 3,
    8
    9
                    "nomEmploye": "Ben Hssine",
                    "prenomEmploye": "Olfa",
   10
                    "poste": "Enseignante"
  11
  12
            3,
  13
  14
                "idDon": 9,
  15
                "montant": 200.0,
  16
                "date": "2023-11-29",
  17
  18
                "type": "Especes",
  19
                 "employe": {
   20
                    "idEmploye": 1,
   21
                    "nomEmploye": "Sofrecom",
   22
                    "prenomEmploye": "Lac1",
```

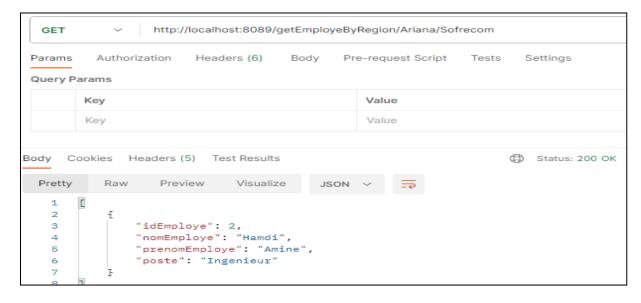
Question 6.

public void getEmployeByDonation();

```
2023-12-08T19:06:15.012+01:00 INFO 4508 --- [ scheduling-1] tn.esprit.donation.services.ServiceIMP : Le meilleur employé du mois est : Ben Hssine 2023-12-08T19:06:30.004+01:00 INFO 4508 --- [ scheduling-1] tn.esprit.donation.services.ServiceIMP : Le meilleur employé du mois est : Ben Hssine 2023-12-08T19:06:45.007+01:00 INFO 4508 --- [ scheduling-1] tn.esprit.donation.services.ServiceIMP : Le meilleur employé du mois est : Ben Hssine
```

Question 7.

public List getEmployeByArea(String companyName , String area);



Question 8.

En utilisant JPQL

public Float getTotalDonation(Date date1, Date date2);

