## Prepare Lab Sheet of MYSQL Statements for following.

1. Write a stored procedure named "GetEmployee()" to get name, birthdate, address of employees.

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE GetEmployee()
    -> BEGIN
    -> SELECT Ename, Bdate, Address
    -> FROM Employee;
    -> END$$
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER;
mysql> |
```

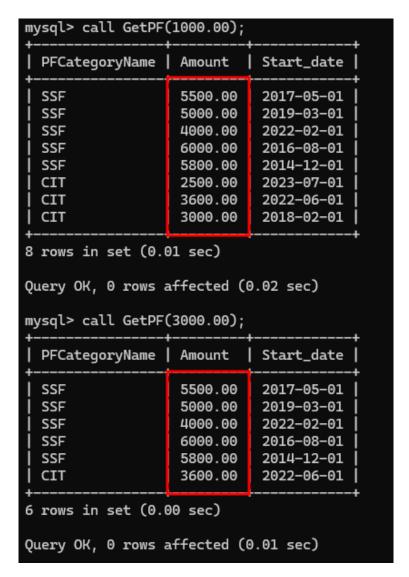
2. Execute the procedure in Q.1 and show the result.

```
mysql> call GetEmployee();
                                Address
 Ename
                    Bdate
 Santosh Parajuli
                    1996-05-01
                                Kirtipur
 Raju Shrestha
                                Kalimati
                    1995-01-01
 Bipin Maharjan
                                Kirtipur
                    1994-08-12 |
 Rishi Pradhananga | 1990-10-21 |
                                Anamnagar
 Dipen Khatri
                    1993-02-07 | Pepsicola
 Gopal Shrama
                    0200-01-01 | Lagankhel
 Tina Lama
                   Shyam Tamang
                                Kalanki
                    1998-12-12
 Prakash Karki
                   1988-03-03
                                Baneshwor
 Kaushal Khatiwada | 1996-10-28 | Kaushaltar
10 rows in set (0.01 sec)
Query OK, 0 rows affected (0.03 sec)
```

3. Write a stored procedure to get PF category name, Amount and start date where the amount is greater than provided input value. Your procedure should contain an IN parameter named amt to take input value of amount. Call the procedure with inputs 1000 and 3000 respectively.

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE GetPF(in amt decimal(10,2))
    -> BEGIN
    -> SELECT PFCategoryName, Amount, Start_date
    -> FROM PF
    -> WHERE Amount > amt;
    -> END$$
Query OK, 0 rows affected (0.02 sec)

mysql> DELIMITER;
mysql>
```



4. Write a stored procedure to get number of PF records where the amount of PF is equal to the provided input value. Your procedure should contain an IN parameter named amt to take input value of amount and should contain OUT parameter named total to return the total number of PF records satisfying the condition.

```
mysql> DELIMITER $$
mysql> CREATE PROCEDURE GetNumberOfPF(in amt decimal(10,2),OUT total INT)
    -> BEGIN
    -> SELECT COUNT(Amount)
    -> FROM PF
    -> WHERE Amount = amt;
    -> END$$
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER;
mysql>
```

5. Call the procedure in Q4. with input of 3000 and print the @total.

```
mysql> call GetNumberOfPF(3000.00,@total);
+-----+
| COUNT(Amount) |
+-----+
| 1 |
+-----+
1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)
```

6. Write before insert trigger before inserting a record into the Employee table. Show some action on the event.

```
mysql> DELIMITER $$
mysql> create trigger new_employee_create
    -> before insert on employee for each row
    -> begin
    -> if new.salary<0 then set new.salary = 0;
    -> end if;
    -> end; $$
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER;
mysql>
```

**Before insert** trigger created so that if salary is inserted negative value, it set the salary value to 0.

```
mysql> insert into Employee (SSN, Ename, Gender, Bdate, Address, Salary, Ono, Years_of_experience)
-> values (10,"Suresh timalsina","M","1992-03-22","Koteshwor",-55000,1,11);
Query OK, 1 row affected (0.01 sec)
mysql> select * from employee;
 SSN | Ename
                                                                                 Ono
                              Gender |
                                        Bdate
                                                       Address
                                                                    | Salary
                                                                                          Years_of_experience | Matrial_status
        Santosh Parajuli
                                         1996-05-01
                                                       Kirtipur
                                                                      55000.00
                                                                                                                  Married
                                         1995-01-01
                                                                                     2
        Raju Shrestha
                               М
                                                       Kalimati
                                                                      50000.00
                                                                                                                  Single
                                         1994-08-12
                                                                                     5
        Bipin Maharjan
                               М
                                                       Kirtipur
                                                                      40000.00
                                                                                                              2 |
                                                                                                                  Married
        Rishi Pradhananga
                                        1990-10-21
                                                       Anamnagar
                                                                      60000.00
                                                                                     4
                                                                                                                  Divorced
                               М
                                                                                                              8 I
                                         1993-02-07
                                                       Pepsicola
                                                                      58000.00
                                                                                     3
        Dipen Khatri
                               М
                                                                                                             10 l
                                                                                                                  Married
        Gopal Shrama
                               М
                                         0200-01-01
                                                       Lagankhel
                                                                      25000.00
                                                                                                                  Divorced
                                         2002-07-12
        Tina Lama
                                                       Balkhu
                                                                      36000.00
                                                                                     2
                                                                                                                  Single
                                                                                                              2
    8
        Shyam Tamang
                                         1998-12-12
                                                       Kalanki
                                                                      48000.00
                                                                                     3
                                                                                                                  Divorced
        Prakash Karki
                               М
                                         1988-03-03
                                                       Baneshwor
                                                                      57000.00
                                                                                     4
                                                                                                                  Single
                                         1992-03-22
                                                                         0.00
   10
        Suresh timalsina
                                                                                                                  NULL
                               М
                                                       Koteshwor
                                                                                     1
                                                                                                             11 l
                                         1996-10-28
                                                                                                              6
                                                                                                                  Single
        Kaushal Khatiwada
                              М
                                                       Kaushaltar
                                                                     30000.00
                                                                                     6
11 rows in set (0.00 sec)
```

Here, Suresh timalsina's salary is inserted as -55000 but after the trigger is trigged the value is set to zero.

7. Write after delete trigger on PF table during delete operation. Print "It is deleted".

First create a table to store the deleted items

```
mysql> create table deleted_pf (
    ->     PFID int,
    ->     SSN int,
    ->     Start_date date,
    ->     Amount decimal(10,2),
    ->     deletion_date timestamp,
    ->     Remarks varchar(255)
    -> );
Query OK, 0 rows affected (0.03 sec)
```

Created after delete trigger to insert the deleted item in the newly created table.

```
mysql> DELIMITER $$
mysql> create trigger after_PF_delete
    -> after delete on PF for each row
    -> begin
    -> insert into deleted_pf values (old.pfid, old.ssn,old.start_date,old.amount,now(),"It is deleted");
    -> end; $$
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER;
```

```
mysql> select * from pf;
                                             Start_date | Remarks
  PFID
         SSN
                PFCategoryName
                                  Amount
                                  5500.00
                                                          Regular Contributor
     1
                                             2017-05-01
     2
            2
                                  5000.00
                SSF
                                             2019-03-01
                                                          Irregular Contributor
     3
            3
                SSF
                                  4000.00
                                             2022-02-01
                                                          Regular Contributor
     4
            4
                SSF
                                  6000.00
                                             2016-08-01
                                                          Irregular Contributor
     5
            5
                SSF
                                  5800.00
                                             2014-12-01
                                                          Regular Contributor
                                                          Irregular Contributor
     6
            6
                CIT
                                  2500.00
                                             2023-07-01
    13
           13
                CIT
                                  3000.00
                                             2018-02-01
                                                          NULL
 rows in set (0.00 sec)
mysql> delete from pf where pfid = 6;
Query OK, 1 row affected (0.01 sec)
mysql> select * from pf;
  PFID
         SSN
                PFCategoryName
                                  Amount
                                             Start_date
                                                          Remarks
            1
                SSF
                                  5500.00
                                             2017-05-01
                                                          Regular Contributor
     1
     2
            2
                SSF
                                  5000.00
                                             2019-03-01
                                                          Irregular Contributor
     3
            3
                SSF
                                  4000.00
                                             2022-02-01
                                                          Regular Contributor
     4
            4
                SSF
                                  6000.00
                                             2016-08-01
                                                          Irregular Contributor
     5
            5
                SSF
                                  5800.00
                                             2014-12-01
                                                          Regular Contributor
    13
           13
                CIT
                                  3000.00
                                             2018-02-01
                                                          NULL
6 rows in set (0.00 sec)
```

Delete event triggered

After Delete trigger, the deleted item is inserted into newly created database with message "It is deleted".