Prabhat Ale

Roll No:22

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

```
•CREATE PROCEDURE GetEmployee() -- Procedure name matches the call
       BEGIN
            -- Select name, birthdate, address of employees.
SELECT Ename, Bdate, Address
G
            FROM EMPLOYEE;
(x)
       END;
Statistics 1 ×
         Value
Name
Updated Rows 0
         CREATE PROCEDURE GetEmployee() -- Procedure name matches the call
           SELECT Ename, Bdate, Address
          FROM EMPLOYEE;
         Mon May 13 20:59:28 NPT 2024
Finish time Mon May 13 20:59:28 NPT 2024
```

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

```
CALL GetEmployee;
■ EMPLOYEE 1 × ■ Statistics 1
                       Address
    Ename
              Bdate
   Gaurav
              2056-07-24 MacheGaun
 2 Anish
              2053-12-05 Budhanilkandha
 3 Prabhat
              2054-12-15 Nawalparasi
              2052-07-06 Sunwal
 4 Suman
 5 Ashmita
              2053-12-05 Brussels
              2054-12-15 Delhi
 6 Kabita
 7 Kusum
              2052-07-06 Sunwal
              2057-11-15 Banglore
 8 Pratigya
 9 Abin
              2051-07-09 Sunwal
```

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

```
• CREATE PROCEDURE GetPFDetails(IN amt DECIMAL(10, 2))
             SELECT PFCategoryName, Amount, Start date
FROM PF
G,
             WHERE Amount > amt;
(x)
       END
讍
■ Statistics 1 ×
          Value
Name
Updated Rows 0
          CREATE PROCEDURE GetPFDetails(IN amt DECIMAL(10, 2))
           SELECT PFCategoryName, Amount, Start_date
           FROM PF
           WHERE Amount > amt;
          END
Start time
          Mon May 13 21:31:42 NPT 2024
Finish time Mon May 13 21:31:42 NPT 2024
```

i i	≜	CALL GetPFDetails(1000);		
PF1 X ■ Statistics 1				
T C		etPFDetails (1000) CEnter a SQL expression to filter results (use Ctrl+Space)		
2	•	***PFCategoryName	¹²³ Amount *	Start_date
∄ -	1	Employee_Provident_Fund	4,500	2079-12-05
i icy	2	Pension_Fund	5,500	2078-12-15
1.	3	Retirement_Fund	4,700	2076-07-06
4	4	Children_Savings_Fund	5,800	2080-11-15
Į.	5	General_Provident_Fund	2,500	2074-07-09
6	6	Employee_Provident_Fund	3,000	2078-12-05
-	7	Pension_Fund	6,000	2077-12-15
8	8	Retirement_Fund	4,000	2075-07-06
9	9	Children_Savings_Fund	5,000	2079-11-15
	10	General_Provident_Fund	3,500	2073-07-09

```
CALL GetPFDetails(3000);
PF 1 X Statistics 1
   *PFCategoryName
                             Amount Start date
1 Employee Provident Fund
                                 4,500
                                         2079-12-05
2 Pension Fund
                                 5,500
                                         2078-12-15
3 Retirement Fund
                                 4,700
                                         2076-07-06
4 Children Savings Fund
                                 5,800
                                         2080-11-15
5 Pension Fund
                                 6,000
                                         2077-12-15
6 Retirement Fund
                                 4,000
                                         2075-07-06
7 Children Savings Fund
                                         2079-11-15
                                 5,000
8 General Provident Fund
                                 3,500
                                         2073-07-09
```

4. Write a stored procedure to get a 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 the input value of the amount and should contain an OUT parameter named total to return the total number of PF records satisfying the condition.



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

```
CALL GetPFTotal(3000, @total)

Statistics 1 ×

Name Value

Updated Rows 1
Query CALL GetPFTotal(3000, @total)
Start time Mon May 13 21:44:22 NPT 2024

Finish time Mon May 13 21:44:22 NPT 2024
```

```
SELECT * FROM PF WHERE Amount = 3000;

FF1 ×

FF2 ×

FF2 ×

FF2 ×

FF3 ×

FF3 ×

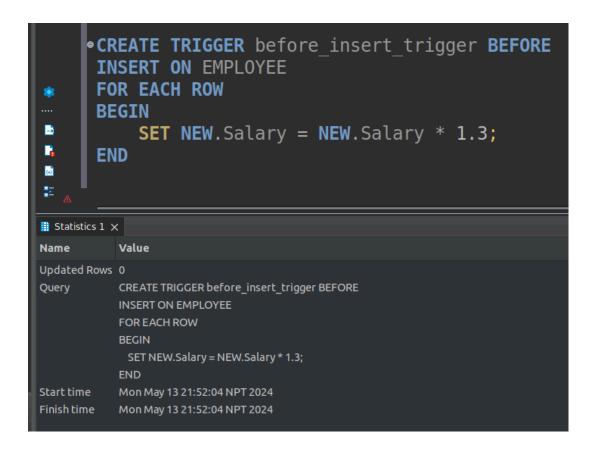
FF3 ×

FF4 ×

FF5 ×

FF6 ×
```

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



To execute a trigger, we must first insert data into the EMPLOYEE table. However, the EMPLOYEE table depends on the OFFICE table, as the primary key of the OFFICE table is referenced as a foreign key in the EMPLOYEE table. Therefore, we need to perform an insert operation in the OFFICE table beforehand.

```
INSERT INTO Office(Onumber, Oname, Country)
VALUES
r.
        (36, 'Sunil Office 36', 'Ireland');
(x)
B

■ Statistics 1 ×
           Value
Name
Updated Rows 1
Query
           INSERT INTO Office(Onumber, Oname, Country)
           (36, 'Sunil_Office_36', 'Ireland')
Start time
           Mon May 13 22:04:02 NPT 2024
Finish time
           Mon May 13 22:04:02 NPT 2024
```

Then we can insert into the EMPLOYEE table with the appropriate details.

NOTE: We have inserted the Sunil information where his salary was inserted as 100000 but the trigger automatically gets executed before the insert operation and hiked the salary by 30% to 130000.



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

Create a new table named
trigger_log to store the log message so
that we can print the trigger message

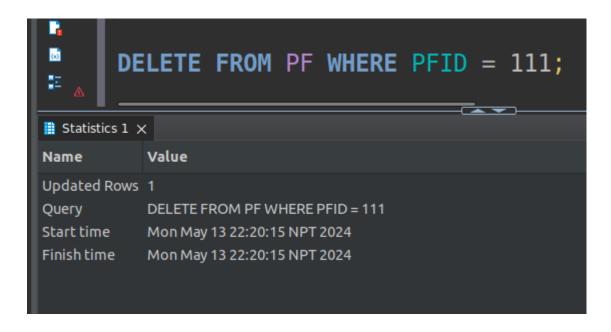
```
CREATE TABLE trigger log(
       id INT AUTO INCREMENT PRIMARY KEY,
*
       message VARCHAR(255),
created at TIMESTAMP DEFAULT CURRENT TIMESTAMP
       );
讍
■ Statistics 1 ×
Name
          Value
Updated Rows 0
Query
         CREATE TABLE trigger log(
          id INT AUTO_INCREMENT PRIMARY KEY,
          message VARCHAR(255),
          created at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
Start time
          Mon May 13 22:13:20 NPT 2024
Finish time
          Mon May 13 22:13:20 NPT 2024
```

Create an after-delete trigger on the PF table

```
    CREATE TRIGGER after delete pf table AFTER DELETE

       ON PF
       FOR EACH ROW
       BEGIN
            SELECT CONCAT('It is deleted from ', OLD.PFCategoryName) INTO @message;
•INSERT INTO trigger_log(message) VALUES(@message);
G
(x)
■ Statistics 1 ×
Name
Updated Rows 0
          FOR EACH ROW
          SELECT CONCAT('It is deleted from ', OLD.PFCategoryName) INTO @message;
          INSERT\,INTO\,trigger\_log(message)\,VALUES(@message);\\
          Mon May 13 22:17:02 NPT 2024
Finish time Mon May 13 22:17:02 NPT 2024
```

Delete records From the PF table to see whether the trigger message gets populated in the trigger_log table



Check logs in the trigger log table

Note: Displaying a message After the Delete Trigger message is not possible in MYSQL, so creating a separate trigger_log table and creating after the delete trigger to store the message in this table.