**Lab_5_Suraj_BHAttarai_38**
1. Write a stored procedure named "GetEmployee()" to get name, birthdate, address of employees.
   Ans:
   Query:
   DELIMITER //
   CREATE PROCEDURE GetEmployee()
   BEGIN
      SELECT Ename, Bdate, Address FROM Employee;
   END //
   DELIMITER ;
   Result:
   Query OK, 0 rows affected (0.01 sec)
2. Execute the procedure in Q.1 and show the result.
   Ans:
   Query:
   CALL GetEmployee();
   Result:

| Ename | Bdate | Address |
|-------|-------|---------|
| Sita | 1990-05-02 | australia |
| pratiksha | 2061-05-07 | dang |
| Ram | 2024-01-03 | ktm-2 |
| SuraJ | 2024-07-03 | lalitpur-2 |
| hari | 2024-08-03 | lamahi-2 |

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.
   Ans:
   Query:
   DELIMITER //
   CREATE PROCEDURE GetPFCategories(IN amt INT)
   BEGIN
      SELECT PFCategoryName, Amount, Start_date FROM PF WHERE Amount > amt;
   END;
    DELIMITER ;
   **Result:**
   Query OK, 0 rows affected (0.01 sec)
   **Calling the procedure with inputs 1000 and 3000 respectively:**
    **Query:** CALL GetPFCategories(1000);

   **Result**

| PFCategoryName | Amount | Start_date |
|---|---|---|
| Category 2 | 2000.00 | 2022-02-01 |
| Category 3 | 3000.00 | 2022-03-01 |
| Category 4 | 4000.00 | 2022-04-01 |
| Category 5 | 5000.00 | 2022-05-01 |
| Category 2 | 2000.00 | 2022-02-01 |
| Category 3 | 3000.00 | 2022-03-01 |
| Category 4 | 4000.00 | 2022-04-01 |
| Category 5 | 5000.00 | 2022-05-01 |

**Query:** CALL GetPFCategories(3000);
**Result:**

Result Grid | Filter Rows: | Export:

| PFCategoryName | Amount | Start_date |
|---|---|---|
| Category 4 | 4000.00 | 2022-04-01 |
| Category 5 | 5000.00 | 2022-05-01 |
| Category 4 | 4000.00 | 2022-04-01 |
| Category 5 | 5000.00 | 2022-05-01 |

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.
Ans:
**Query**:
DELIMITER //
CREATE PROCEDURE GetTotalPFForAmount(IN amt INT, OUT total INT)
BEGIN
    SELECT COUNT(*) INTO total FROM PF WHERE Amount = amt;
END//
DELIMITER                                                                                              ;
**Result:**
Query OK, 0 rows affected (0.01 sec

5. Call the procedure in Q4. with input of 3000 and print the @total.
Ans:
**Query:**
CALL GetTotalPFForAmount(3000, @total);
SELECT @total;
**Result:**

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| @total |
|---|
| 2 |

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

Ans:

**Query:**
DELIMITER //
CREATE TRIGGER before_employee_insert
BEFORE INSERT ON Employee
FOR EACH ROW
BEGIN
 -- Perform some action on the event
 DECLARE employeeCount INT;
 -- Check if the number of employees exceeds a certain limit
 SELECT COUNT(*) INTO employeeCount FROM Employee;
 IF employeeCount >4 THEN
 -- Raise an error if the limit is exceeded
 SIGNAL SQLSTATE '45000'
 SET MESSAGE_TEXT = 'Maximum employee limit reached.';
 END IF;
END //
DELIMITER ;

Result:
        0 row(s) affected

**When I try to insert then following error came that mean trigger is activated**
**Query:**
INSERT INTO employee(SSN, Ename, Gender, Bdate, Address, Salary, Ono,Years_of_experience, Marital_status) VALUES( 7, 'padam', 'M', '1994-04-25','ktm',50000,5,6,'single')
**Result:**
ERROR 1644 (45000): Maximum employee limit reached.
mysql>

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

    Ans:
    Query:
    DELIMITER //
    CREATE TRIGGER after_pf_delete
    AFTER DELETE ON PF
    FOR EACH ROW
    BEGIN
     -- Perform some action after the delete operation
     INSERT INTO LogTable (Message) VALUES ('It is deleted');
    END //
    DELIMITER //
     **Result:**
        0 row(s) affected

    **After that to check I tried following query**

**Query:**
DELETE FROM pf where PFID = 9

**Result:**
ERROR 1146 (42S02): Table 'suraj_38_company.LogTable' doesn't exist