/*Practical No : 06 Name: Dhiraj Vijay Barwal, Roll no : 8,

Class: TECSD, Batch: T1*/

```
-- PRACTICAL: CREATE A DATABASE AND TRIGGER TO DISPLAY SALARY
CHANGES BEFORE UPDATE
-- Step 1: Create the database
CREATE DATABASE cust tri;
-- Step 2: Use the created database
USE cust_tri;
-- Step 3: Create the table 'customers'
CREATE TABLE customers (
  ID INT PRIMARY KEY,
  NAME VARCHAR(20),
  AGE INT.
  ADDRESS VARCHAR(50),
  SALARY INT
);
-- Step 4: Insert sample data into 'customers' table
INSERT INTO customers VALUES
  (1, "Ramesh", 32, "Ahmedabad", 2000),
  (2, "Khilan", 25, "Delhi", 1500),
  (3, "Kaushik", 23, "Kota", 2000),
  (4, "Chaitali", 25, "Mumbai", 6500),
  (5, "Hardik", 27, "Bholan", 8500),
  (6, "Komal", 22, "MP", 4500);
-- Step 5: Create a trigger for before any update on 'customers'
DELIMITER $$
CREATE TRIGGER display_salary_changes
BEFORE UPDATE ON customers
FOR EACH ROW
BEGIN
  DECLARE sal_diff INT;
  -- Calculate salary difference
  SET sal_diff = NEW.SALARY - OLD.SALARY;
  -- Display the old and new salary, and the difference
  SELECT CONCAT('Old salary: ', OLD.SALARY) AS old salary;
  SELECT CONCAT('New salary: ', NEW.SALARY) AS new_salary;
```

SELECT CONCAT('Salary difference: ', sal_diff) AS salary_difference; END \$\$

DELIMITER;

- -- Step 6: Update an existing row in 'customers' to trigger the update UPDATE customers SET SALARY = 5000 WHERE ID = 1;
- -- Step 7: Select all records from the 'customers' table to view final data **SELECT * FROM customers**;
- -- Expected Output:
- -- When updating the salary of customer with ID = 1, the trigger should display:
- -- Old salary: 2000 -- New salary: 5000
- -- Salary difference: 3000