**Lab – 16**

-- Step 1: Create the CUSTOMERS table

CREATE TABLE CUSTOMERS (

ID INT PRIMARY KEY,

NAME VARCHAR(50),

AGE INT,

ADDRESS VARCHAR(100),

SALARY DECIMAL(10, 2)

);

-- Step 2: Insert initial data into the CUSTOMERS table

INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY)

VALUES

(1, 'Ramesh', 32, 'Ahmedabad', 2000.00),

(2, 'Khilan', 25, 'Delhi', 1500.00),

(3, 'Kaushik', 23, 'Kota', 2000.00),

(4, 'Chaitali', 25, 'Mumbai', 6500.00),

(5, 'Hardik', 27, 'Bhopal', 8500.00),

(6, 'Komal', 22, 'MP', 4500.00);

-- Step 3: Create separate triggers for INSERT, UPDATE, and DELETE

DELIMITER $$

-- Trigger for INSERT

CREATE TRIGGER Trigger\_Customer\_Insert

AFTER INSERT ON CUSTOMERS

FOR EACH ROW

BEGIN

INSERT INTO Salary\_Log (Log\_Message)

VALUES (CONCAT('New record inserted. New Salary: ', NEW.SALARY));

END$$

-- Trigger for UPDATE

CREATE TRIGGER Trigger\_Customer\_Update

AFTER UPDATE ON CUSTOMERS

FOR EACH ROW

BEGIN

INSERT INTO Salary\_Log (Log\_Message)

VALUES (CONCAT('Salary updated. Difference: ', NEW.SALARY - OLD.SALARY));

END$$

-- Trigger for DELETE

CREATE TRIGGER Trigger\_Customer\_Delete

AFTER DELETE ON CUSTOMERS

FOR EACH ROW

BEGIN

INSERT INTO Salary\_Log (Log\_Message)

VALUES (CONCAT('Record deleted. Old Salary: ', OLD.SALARY));

END$$

DELIMITER ;

CREATE TABLE Salary\_Log (

Log\_ID INT AUTO\_INCREMENT PRIMARY KEY,

Log\_Message VARCHAR(255),

Log\_Time TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

INSERT INTO CUSTOMERS (ID, NAME, AGE, ADDRESS, SALARY) VALUES (7, 'Aayush', 24, 'Dehradun', 5000.00);

DELETE FROM CUSTOMERS WHERE ID = 2;

SELECT \* FROM Salary\_Log;

