4. Create a row level trigger for the customers table that would fire for INSERT or UPDATE or

DELETE operations performed on the CUSTOMERS table. This trigger will display the salary difference between the old & new Salary.

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

Solution: DELIMITER // CREATE TRIGGER trg salary diff AFTER INSERT OR UPDATE OR DELETE ON customers FOR EACH ROW **BEGIN** DECLARE old\_sal DECIMAL(10,2); DECLARE new sal DECIMAL(10,2); DECLARE sal\_diff DECIMAL(10,2); DECLARE op type VARCHAR(10); DECLARE msg VARCHAR(255); IF (NEW.ID IS NOT NULL AND OLD.ID IS NULL) THEN SET old sal = 0; SET new sal = NEW.SALARY; SET op type = 'INSERT'; ELSEIF (OLD.ID IS NOT NULL AND NEW.ID IS NULL) THEN SET old sal = OLD.SALARY; SET new sal = 0; SET op\_type = 'DELETE'; **ELSE** SET old\_sal = OLD.SALARY; SET new sal = NEW.SALARY: SET op\_type = 'UPDATE'; END IF; -- Calculate salary difference SET sal diff = new sal - old sal;

END //

DELIMITER;

DML:

INSERT INTO customers (ID, NAME, AGE, ADDRESS, SALARY) VALUES (1, 'John Doe', 30, 'New York', 50000.00);

UPDATE customers SET SALARY = 55000.00 WHERE ID = 1;

DELETE FROM customers WHERE ID = 1;