



BCS403 Program 4

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)

Step 1: Create the CUSTOMERS Table:

```
CREATE TABLE CUSTOMERS (  
    ID NUMBER PRIMARY KEY,  
    NAME VARCHAR2(100),  
    AGE NUMBER,  
    ADDRESS VARCHAR2(200),  
    SALARY NUMBER  
);
```

Step 2: Create the Trigger:

```
CREATE OR REPLACE TRIGGER salary_difference_trigger  
AFTER INSERT OR UPDATE OR DELETE  
ON CUSTOMERS  
FOR EACH ROW  
DECLARE  
    v_old_salary CUSTOMERS.SALARY%TYPE;  
    v_new_salary CUSTOMERS.SALARY%TYPE;  
    v_salary_diff CUSTOMERS.SALARY%TYPE;  
BEGIN  
    IF INSERTING THEN  
        v_old_salary := 0;  
        v_new_salary := :NEW.SALARY;  
    ELSIF UPDATING THEN  
        v_old_salary := :OLD.SALARY;  
        v_new_salary := :NEW.SALARY;
```

```
ELSIF DELETING THEN
    v_old_salary := :OLD.SALARY;
    v_new_salary := 0;
END IF;

v_salary_diff := v_new_salary - v_old_salary;

DBMS_OUTPUT.PUT_LINE('Salary difference: ' || v_salary_diff);
END;
```

Step 3: Test the Trigger: Now, perform INSERT, UPDATE, and DELETE operations on the CUSTOMERS table to see the trigger in action.

Insert Operation:

```
INSERT INTO CUSTOMERS
VALUES (1, 'Braham Kumar', 30, 'Bangalore', 8000);
```

Update Operation:

```
UPDATE CUSTOMERS
SET SALARY = 6000
WHERE ID = 1;
```

Delete Operation:

```
DELETE FROM CUSTOMERS
WHERE ID = 1;
```

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