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Lab 12

Ques1: 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 values and new values.

SQL Worksheet

```
CREATE TABLE customers (
    id NUMBER(10),
    name VARCHAR2(50),
    age NUMBER(3),
    address VARCHAR2(100),
    salary NUMBER(10,2)
);
```

SQL Worksheet

Clear Find Actions Save

```
CREATE OR REPLACE TRIGGER salary_trigger
AFTER INSERT OR UPDATE OR DELETE ON customers
FOR EACH ROW
DECLARE
    old_salary NUMBER;
    new_salary NUMBER;
BEGIN
    IF inserting THEN
        dbms_output.put_line('New salary: ' || :new.salary);
    ELSIF updating THEN
        old_salary := :old.salary;
        new_salary := :new.salary;
        dbms_output.put_line('Salary changed from ' || old_salary || ' to ' || new_salary);
    ELSIF deleting THEN
        dbms_output.put_line('Salary before deleting: ' || :old.salary);
    END IF;
END;
```

Trigger created.

```
SELECT DBMS_METADATA.GET_DDL('TRIGGER', 'SALARY_DIFF_TRIGGER') AS trigger_definition
FROM DUAL;
```

```
  CREATE OR REPLACE EDITIONABLE TRIGGER "SQL_NAINAKBFTVMAZVUXTNYKTDJPX"."SALARY_DIFF_TRIGGER"
AFTER INSERT OR UPDATE OR DELETE ON customer
FOR EACH ROW
DECLARE
  old_salary NUMBER;
  new_salary NUMBER;
BEGIN
  IF INSERTING OR UPDATING THEN
    old_salary := NVL(:OLD.salary, 0);
    new_salary := NVL(:NEW.salary, 0);
  ELSE
    old_salary := NVL(:OLD.salary, 0);
    new_salary := 0;
  END IF;

  DBMS_OUTPUT.PUT_LINE('Salary difference: ' || (new_salary - old_salary));
END;
ALTER TRIGGER "SQL_NAINAKBFTVMAZVUXTNYKTDJPX"."SALARY_DIFF_TRIGGER" ENABLE
```