ORACLE LAB ASSIGNMENT - 11

Trigger Programs

1. Write a trigger that will insert each record in Emp_New table whenever a record is deleted from Employee table.

```
SQL> set serveroutput on
SQL> CREATE OR REPLACE TRIGGER trg_after_delete_employee
2 AFTER DELETE ON Employee
3 FOR EACH ROW
4 BEGIN
5 INSERT INTO Emp_New (emp_id, emp_name, salary, department, deletion_date)
6 VALUES (:OLD.emp_id, :OLD.emp_name, :OLD.salary, :OLD.department, SYSDATE);
7 BDMS_OUTPUT.PUT_LINE('Employee ' || :OLD.emp_name || ' with ID ' || :OLD.emp_id || ' has been deleted and inserted into Emp_New table.');
9 EDD;
10 /
Trigger created.
SQL> DELETE FROM Employee WHERE emp_id = 1;
Employee jay with ID 1 has been deleted and inserted into Emp_New table.
1 row deleted.
SQL> SELECT * FROM Emp_New;
EMP_ID EMP_NAME
SALARY DEPARTMENT
DELETION_
1 jay
50000 HR
12-NOV-24
```

2. Write a trigger that insert a record in Emp_Old table whenever a record is updated in Employee table.

```
SQL> set serveroutput on
SQL> CREATE OR REPLACE TRIGGER trg_after_update_employee
2 AFTER UPDATE ON Employee
3 FOR EACH ROW
4 BEGIN
5 INSERT INTO Emp_Old (emp_id, emp_name, salary, department, update_date)
6 VALUES (:OLD.emp_id, :OLD.emp_name, :OLD.salary, :OLD.department, SYSDATE);
7
8 DBMS_OUTPUT.PUT_LINE('Employee ' || :OLD.emp_name || ' with ID ' || :OLD.emp_id || ' has been updated. Old record inserted into Emp_Old table.');
9 END;
10 /
Trigger created.

SQL> UPDATE Employee
2 SET salary = salary + 5000
3 WHERE emp_id = 1;
Employee jay with ID 1 has been updated. Old record inserted into Emp_Old table.

1 row updated.

SQL> select *from emp_old;
EMP_ID EMP_NAME SALARY DEPARTMENT UPDATE_DA
1 jay 50000 HR 12-NOV-24
```

3. Write a trigger that will insert a record in Employee & Salary table whenever a record is deleted from Emp_Sal table.

Structures of table

Emp_salary

No, name, city, basic, da, hra, pf

Emp

No, name, city

Salary

No, basic, da, hra, pf

```
INSERT INTO Employee (no, name, city)
VALUES (:OLD.no, :OLD.name, :OLD.city);
             INSERT INTO Salary (no, basic, da, hra, pf)
VALUES (:OLD.no, :OLD.basic, :OLD.da, :OLD.hra, :OLD.pf);
             DBMS_OUTPUT.PUT_LINE('Employee record for ' || :OLD.name || ' has been inserted into Employee table.');
DBMS_OUTPUT.PUT_LINE('Salary record for ' || :OLD.name || ' has been inserted into Salary table.');
Trigger created.
SQL> DELETE FROM Emp_Sal WHERE no = 1;
Employee record for jay has been inserted into Employee table.
Salary record for jay has been inserted into Salary table.
1 row deleted.
SQL> SELECT * FROM Employee;
           NO NAME
                                                                                            CITY
             1 jay
                                                                                            rajkot
SQL> SELECT * FROM Salary;
           NO
                       BASTC
                                            DΑ
                                                           HRA
                                                                             PF
                       50000
                                       10000
                                                         8000
                                                                          3000
```

4. Write a PL/SQL program that will insert a record in Emp_Modify table whenever a records are deleted from emp table.

5. Write a trigger that will insert a record in Emp_Old table whenever a record is deleted from Employee table for those employees who are leaving in 'Rajkot'.

```
SQL> Set serveroutput on SQL> CREATE OR REPLACE TRIGGER trg_after_delete_emp_rajkot 2 AFTER DELETE ON Employee 3 FOR EACH ROW 4 BEGIN 5 FOR EACH ROW 4 BEGIN 5 FOR EACH ROW 5 FOR EACH ROW 6 FOR EACH ROW 6 FOR EACH ROW 7 Replace 1 Replace
```

6. Write a trigger that allows inserting record in Employee table if the salary of employees not exceed more then 1, 00,000. If salary exceed, raise exception which restrict to insert a record.