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**ROLL NO:24**

**BATCH : B2**

**COURSE: DBMS PRACTICAL**

**Assginment No. 11**

**Problem Statment :** Create a transparent audit system for a table Employees using trigger. The system must keep track of the records that are being deleted or updated.

When a record is deleted or modified in a employee table, employee id and and the date of operation are stored in the audit table, then the delete or update operation is allowed to go through

**CODE:**

**CREATE TABLE Employees7 (**

**id NUMBER PRIMARY KEY,**

**name VARCHAR2(100)**

**);**

**CREATE TABLE Employee\_Audit (**

**operation\_type VARCHAR2(10),**

**employee\_id NUMBER,**

**operation\_date DATE**

**);**

**INSERT INTO Employees7 (id, name) VALUES (1, 'neha');**

**INSERT INTO Employees7 (id, name) VALUES (2, 'unnati');**

**CREATE OR REPLACE TRIGGER Employee\_Delete\_Audit1**

**AFTER DELETE ON Employees7**

**FOR EACH ROW**

**BEGIN**

**INSERT INTO Employee\_Audit (operation\_type, employee\_id, operation\_date)**

**VALUES ('DELETE', :OLD.id, SYSDATE);**

**END;**

**CREATE OR REPLACE TRIGGER Employee\_Update\_Audit1**

**AFTER UPDATE ON Employees7**

**FOR EACH ROW**

**BEGIN**

**INSERT INTO Employee\_Audit (operation\_type, employee\_id, operation\_date)**

**VALUES ('UPDATE', :NEW.id, SYSDATE);**

**END;**

**SELECT \* FROM Employee\_Audit;**

**SELECT \* FROM Employees7;**

**UPDATE Employees7 SET name = 'Aditi' WHERE id = 1;**

**DELETE FROM Employees7 WHERE id = 2;**