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PL-SQL:
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1 row created.

SQL>

1. Write a PL-SQL Program to create a trigger to backup a row which is delete from the one table and inse rted in the another table. sol: SQL> -- Create the source_table (if it doesn't exist) SQL> CREATE TABLE source_table (2 id NUMBER PRIMARY KEY, 3 name VARCHAR2(100), age NUMBER 4 5); Table created. SQL> SQL> -- Create the backup table (if it doesn't exist) SQL> CREATE TABLE backup_table (id NUMBER PRIMARY KEY, 2 3 name VARCHAR2(100), 4 age NUMBER 5); Table created. SQL> SQL> -- Create the trigger SQL> CREATE OR REPLACE TRIGGER backup_trigger 2 AFTER DELETE ON source table 3 FOR EACH ROW 4 BEGIN 5 -- Insert the deleted row into the backup_table INSERT INTO backup_table (id, name, age) 6 7 VALUES (:OLD.id, :OLD.name, :OLD.age); 8 9 -- Display the backup information DBMS_OUTPUT_LINE('Row with ID' ||:OLD.id ||' backed up to backup_table.'); 10 11 END; 12 / Trigger created. SQL> -- Enable DBMS OUTPUT SQL> SET SERVEROUTPUT ON; SQL> SQL> -- Insert some data into the source_table SQL> INSERT INTO source_table (id, name, age) VALUES (1, 'John Doe', 25); 1 row created. SQL> INSERT INTO source table (id, name, age) VALUES (2, 'Jane Smith', 30);

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SQL> -- Delete a row from the source table
SQL> DELETE FROM source_table WHERE id = 1;
Row with ID 1 backed up to backup table.
1 row deleted.
SQL> SELECT * FROM backup_table;
    ID NAME AGE
     1 John Doe 25
2. Write a PL-SQL Program to Print the salary changes when the salary is changed.
sol:
SQL> -- Create the employees table (if it doesn't exist)
SQL> CREATE TABLE employees (
     employee_id NUMBER PRIMARY KEY,
 3
     employee_name VARCHAR2(100),
     salary NUMBER,
 4
     update date DATE
 5
 6);
Table created.
SQL>
SQL> -- Create the trigger
SQL> CREATE OR REPLACE TRIGGER salary_change_trigger
 2 BEFORE UPDATE OF salary ON employees
 3 FOR EACH ROW
 4 BEGIN
 5
     -- Check if the salary is being updated
     IF :OLD.salary != :NEW.salary THEN
 6
 7
       -- Print the salary change information
       DBMS_OUTPUT.PUT_LINE('Salary change for Employee ID: ' || :NEW.employee_id);
 8
       DBMS_OUTPUT.PUT_LINE('Old Salary: ' || :OLD.salary || ', New Salary: ' || :NEW.salary);
 9
        DBMS_OUTPUT.PUT_LINE('Update Date: ' || SYSDATE);
10
11
      END IF;
12 END:
13 /
Trigger created.
SQL> -- Enable DBMS_OUTPUT
SQL> SET SERVEROUTPUT ON;
SQL>
SQL> -- Insert some data into the employees table
SQL> INSERT INTO employees (employee_id, employee_name, salary, update_date) VALUES (1, 'John
Doe', 50000, SYSDATE);
1 row created.
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SQL> INSERT INTO employees (employee_id, employee_name, salary, update_date) VALUES (2, 'Jane Smith', 60000, SYSDATE);

1 row created.

SQL>

SQL> -- Update the salary for an employee

SQL> UPDATE employees SET salary = 55000 WHERE employee_id = 1;

Salary change for Employee ID: 1

Old Salary: 50000, New Salary: 55000

Update Date: 02-AUG-23

1 row updated.

SQL> select * from employees;

EMPLOYEE_ID EMPLOYEE_NAME SALARY UPDATE_DA

1 John Doe 55000 02-AUG-23 2 Jane Smith 60000 02-AUG-23