

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



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Experiment - 7

Name: Shivam Agarwal
Section: 23KRG-3B
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Subject Name: ADBMS

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1. Aim:

MEDIUM LEVEL PROBLEM:

Whenever there is an insertion on the student table then, the currently inserted or deleted row should be printed as it is on the output console window.

2. Requirement :

Requirements: Design a trigger

3: Objective:

- To create a trigger on the student table.
- To automatically execute the trigger whenever an insert operation occurs.
- To display the details of the inserted or deleted row on the output console.

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- To ensure real-time tracking and verification of data changes in the student table.
- To assist in debugging or auditing database operations.

4: Code:

```
CREATE OR REPLACE FUNCTION fn_student_audit()
RETURNS TRIGGER
LANGUAGE plpgsql
AS
$$
BEGIN
    IF TG_OP = 'INSERT' THEN
        RAISE NOTICE 'Inserted Row -> ID: %, Name: %, Age: %, Class: %',
            NEW.id, NEW.name, NEW.age, NEW.class;
        RETURN NEW;

    ELSIF
        TG_OP = 'DELETE' THEN
        RAISE NOTICE 'Deleted Row -> ID: %, Name: %, Age: %, Class: %',
            OLD.id, OLD.name, OLD.age, OLD.class;
        RETURN OLD;
    END IF;

    RETURN NULL;
END;
$$
```

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5: Output:

Output:

CREATE TABLE

INSERT 0 1

DELETE 1

CREATE FUNCTION

CREATE TRIGGER