<u>Experiment - 7</u>

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25 Subject Name: ADBMS   Subject- Code : 23CSP - 333

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.

- To ensure real-time tracking and verification of data changes in the student table.

- To assist in debugging or auditing database operations.

4: Code:

```plpgsql
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;
$$
```

5: Output:

Output:

```
CREATE TABLE
INSERT 0 1
DELETE 1
CREATE FUNCTION
CREATE TRIGGER
```