



(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA: 3.18)

#### DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE CODE: DJS22ITL306

**COURSE NAME: DBMS** 

DATE:5/12/2023

CLASS: S.Y. BTech (IT) I1-Batch1

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**ROLL NO: 1025** 

SAP ID: 60003220131

**BRANCH: Information Technology** 

# **Experiment No:9**

# To implement triggers

------EXERCISE-----

1.

CREATE TABLE employee( empno INTEGER, fname VARCHAR(20), Iname VARCHAR(20), salary NUMBER, address VARCHAR2(50) );

#### Output

SQL query successfully executed. However, the result set is empty.

INSERT INTO employee VALUES(101, 'RAHUL', 'BALA', 1234.56, '3F GREENS MULUND'); INSERT INTO employee VALUES(102, 'Romeo', 'Singh', 5434.56, '4F GREENS MULUND'); INSERT INTO employee VALUES(103, 'Real', 'Adani', 10000.56, '5F GREENS MULUND');

| Employee |       |       |          |                        |  |  |  |  |
|----------|-------|-------|----------|------------------------|--|--|--|--|
| empno    | fname | Iname | salary   | address                |  |  |  |  |
| 101      | RAHUL | BALA  | 1234.56  | 3F<br>GREENS<br>MULUND |  |  |  |  |
| 102      | Romeo | Singh | 5434.56  | 4F<br>Greens<br>Mulund |  |  |  |  |
| 103      | Real  | Adani | 10000.56 | 5F<br>Greens<br>Mulund |  |  |  |  |





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CREATE TABLE backup\_employee(
empno INTEGER,
fname VARCHAR(20),
Iname VARCHAR(20),
salary NUMBER,
address VARCHAR2(50)
);

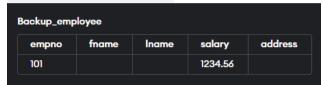
CREATE TRIGGER t1

AFTER UPDATE OF salary ON
employee
FOR EACH ROW
BEGIN
INSERT INTO
backup\_employee(EMPNO, SALARY)
VALUES(OLD.empno, OLD.salary);
END;

#### Output

SQL query successfully executed. However, the result set is empty.

UPDATE employee SET salary = 1000 WHERE empno = 101;









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SELECT abs(employee.salary - backup\_employee.salary) AS salary\_difference FROM employee, backup\_employee where employee.empno = backup\_employee.empno;



## DELETE FROM backup\_employee;



### 2)

```
CREATE TABLE GRADES(
SENO NUMBER,
M1 NUMBER,
M2 NUMBER,
M3 NUMBER,
Avg_M NUMBER
);

CREATE TRIGGER GRADES_TRG
AFTER INSERT ON GRADES
FOR EACH ROW
BEGIN
UPDATE GRADES
SET AVG_M = (M1 + M2 + M3)/3;
END;
INSERT INTO GRADES(SENO, M1, M2, M3) VALUES(100, 89, 90, 80);
```



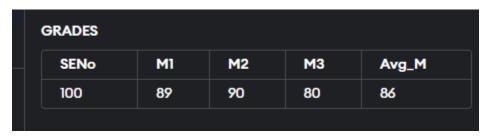


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COURSE NAME: DBMS CLASS: S.Y. BTech (IT) 11-Batch1



## INSERT INTO GRADES(SENo, M1, M2, M3) VALUES(101, 99, 90, 20);

| GRADES |      |    |    |    |       |  |  |
|--------|------|----|----|----|-------|--|--|
|        | SENo | МІ | M2 | МЗ | Avg_M |  |  |
|        | 100  | 89 | 90 | 80 | 86    |  |  |
|        | 101  | 99 | 90 | 20 | 69    |  |  |
|        |      |    |    |    |       |  |  |