



SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)



DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE CODE: DJS22ITL306

DATE: 5/12/2023

COURSE NAME: DBMS

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

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ROLL NO: I025
SAP ID: 60003220131
BRANCH: Information Technology

Experiment No:9

To implement triggers

-----EXERCISE-----

1.

```
CREATE TABLE employee(  
  empno INTEGER,  
  fname VARCHAR(20),  
  lname 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	lname	salary	address
101	RAHUL	BALA	1234.56	3F GREENS MULUND
102	Romeo	Singh	5434.56	4F GREENS MULUND
103	Real	Adani	10000.56	5F GREENS MULUND



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```
CREATE TABLE backup_employee(  
  empno INTEGER,  
  fname VARCHAR(20),  
  lname 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;
```

Backup_employee

empno	fname	lname	salary	address
101			1234.56	

Employee

empno	fname	lname	salary	address
101	RAHUL	BALA	1000	3F GREENS MULUND
102	Rameo	Singh	5434.56	4F GREENS MULUND
103	Real	Adani	10000.56	5F GREENS MULUND



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```
SELECT abs(employee.salary - backup_employee.salary) AS salary_difference  
FROM employee, backup_employee  
where employee.empno = backup_employee.empno;
```

salary_difference
234.55999999999995

```
DELETE FROM backup_employee;
```

Backup_employee				
empno	fname	lname	salary	address
empty				

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(SENNo, M1, M2, M3) VALUES(100, 89, 90, 80);
```



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GRADES				
SENo	M1	M2	M3	Avg_M
100	89	90	80	86

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

GRADES				
SENo	M1	M2	M3	Avg_M
100	89	90	80	86
101	99	90	20	69