

**Ex. No: 9****Date: 10 - 11 - 2022****Experiment 9  
Triggers****Consider the following schema of a database:****emp** (EID, NAME, SALARY)**Table:  
emp**

EID	NAME	SALARY
100	Steven	24000
101	Neena	17000
102	Lex	17000
103	Alexander	9000
104	Bruce	6000
105	David	4800
106	Valli	4800
107	Diana	4200

**Write a SQL query to**

1. Create a statement-type DML trigger for UPDATE command.
2. Create a row-type DML trigger for UPDATE command.
3. Create a statement-type DDL trigger for DROP command.

**Query**

1. create or replace trigger emptrg1 before update on emp  
begin  
dbms\_output.put\_line('Updated records!');  
end;  
/
2. create or replace trigger emptrg2 before update on emp for each row  
begin  
dbms\_output.put\_line('Updated records!');  
end;  
/
3. create or replace trigger systrg1 before drop on system.schema  
begin

```

        dbms_output.put_line('Deleted table!');

    end;

/

```

**Code:**

```
SQL> create table emp (EID number(3), NAME varchar2(20), SALARY number,
primary key(EID));
```

Table created.

```
SQL> desc emp
```

Name	Null?	Type
-----	-----	-----
EID	NOT NULL	NUMBER(3)
NAME		VARCHAR2(20)
SALARY		NUMBER

```
SQL> insert into emp values(&EID, '&NAME', &SALARY);
```

Enter value for eid: 100

Enter value for name: Steven

Enter value for salary: 24000

```
old 1: insert into emp values(&EID, '&NAME', &SALARY)
```

```
new 1: insert into emp values(100, 'Steven', 24000)
```

1 row created.

```
SQL> /
```

Enter value for eid: 101

Enter value for name: Neena

Enter value for salary: 17000

```
old 1: insert into emp values(&EID, '&NAME', &SALARY)
```

```
new 1: insert into emp values(101, 'Neena', 17000)
```

1 row created.

```
SQL> /
```

Enter value for eid: 102

Enter value for name: Lex

Enter value for salary: 17000

```
old 1: insert into emp values(&EID, '&NAME', &SALARY)
```

```
new 1: insert into emp values(102, 'Lex', 17000)
```

1 row created.

```
SQL> /
```

Enter value for eid: 103

Enter value for name: Alexander

Enter value for salary: 9000

```
old 1: insert into emp values(&EID, '&NAME', &SALARY)
```

```
new 1: insert into emp values(103, 'Alexander', 9000)
```

1 row created.

```
SQL> /
Enter value for eid: 104
Enter value for name: Bruce
Enter value for salary: 6000
old 1: insert into emp values(&EID, '&NAME', &SALARY)
new 1: insert into emp values(104, 'Bruce', 6000)
```

1 row created.

```
SQL> /
Enter value for eid: 105
Enter value for name: David
Enter value for salary: 4800
old 1: insert into emp values(&EID, '&NAME', &SALARY)
new 1: insert into emp values(105, 'David', 4800)
```

1 row created.

```
SQL> /
Enter value for eid: 106
Enter value for name: Valli
Enter value for salary: 4800
old 1: insert into emp values(&EID, '&NAME', &SALARY)
new 1: insert into emp values(106, 'Valli', 4800)
```

1 row created.

```
SQL> /
Enter value for eid: 107
Enter value for name: Diana
Enter value for salary: 4200
old 1: insert into emp values(&EID, '&NAME', &SALARY)
new 1: insert into emp values(107, 'Diana', 4200)
```

1 row created.

```
SQL> select * from emp;
```

EID	NAME	SALARY
100	Steven	24000
101	Neena	17000
102	Lex	17000
103	Alexander	9000
104	Bruce	6000
105	David	4800
106	Valli	4800
107	Diana	4200

8 rows selected.

```
SQL> set serveroutput on;
SQL> create or replace trigger emptrg1 before update on emp
2  begin
3  dbms_output.put_line('Updated records!');
4  end;
5  /
```

Trigger created.

```
SQL> update emp set salary = salary * 1.2 where salary < 10000;
Updated records!
```

5 rows updated.

```
SQL> update emp set salary = salary * 1.2 where eid = 107;
Updated records!
```

1 row updated.

```
SQL> create or replace trigger emptrg2 before update on emp for each row
2  begin
3  dbms_output.put_line('Updated records!');
4  end;
5  /
```

Trigger created.

```
SQL> update emp set salary = salary * 1.2 where salary < 10000;
Updated records!
Updated records!
Updated records!
Updated records!
Updated records!
```

4 rows updated.

```
SQL> create or replace trigger systrg1 before drop on system.schema
2  begin
3  dbms_output.put_line('Deleted table!');
4  end;
5  /
```

Trigger created.

```
SQL> drop table emp;
Deleted table!
```

Table dropped.