

EX NO.: 07

TRIGGERS

AIM:

To create and work with triggers.

PROCEDURE:

Step 1: Open Run SQL on Command line and connect to SQL

Step 2: Then work with database using SQL queries.

Trigger: A trigger is a stored procedure in database which automatically invokes whenever a special event in the database occurs. For example, a trigger can be invoked when a row is inserted into a specified table or when certain table columns are being updated.

Syntax:

```
create trigger [trigger_name]
[before | after]
{insert | update | delete}
on [table_name]
[for each row]
[trigger_body]
```

PROGRAM CODE:

```
SQL> CREATE OR REPLACE TRIGGER set_default_salary
2 BEFORE INSERT ON employee
3 FOR EACH ROW
4 BEGIN
5   :NEW.salary := 50000;
6 END;
7 /
```

This trigger program creates a trigger called **set_default_salary** that fires before an insert operation is performed on the **employee** table. The trigger sets the **salary** value of the new employee being inserted to 50000.

Note that the **BEFORE INSERT** clause specifies that the trigger should fire before the insert operation is performed, and the **FOR EACH ROW** clause specifies that the trigger should

execute once for each row that is inserted. Finally, the **:NEW** keyword is used to reference the values being inserted into the table.

OUTPUT:

```
SQL> select * from employee;
```

EMP_ID	EMP_NAME	CITY	SALARY	AGE
1	Raju	Pdy	800000	20
2	Niteesh	Pdy	790000	21
3	Punith	AP	750000	20
4	Sidharth	MP	650000	21
5	Mantu	Delhi	900000	22

```
SQL> CREATE OR REPLACE TRIGGER set_default_salary
2 BEFORE INSERT ON employee
3 FOR EACH ROW
4 BEGIN
5     :NEW.salary := 50000;
6 END;
7 /
```

Trigger created.

```
SQL> insert into employee values(6, 'Dheepan', 'Pdy',0,21);
```

1 row created.

```
SQL> select * from employee;
```

EMP_ID	EMP_NAME	CITY	SALARY	AGE
1	Raju	Pdy	800000	20
2	Niteesh	Pdy	790000	21
3	Punith	AP	750000	20
4	Sidharth	MP	650000	21
5	Mantu	Delhi	900000	22
6	Dheepan	Pdy	50000	21

6 rows selected.

RESULT:

The queries for Triggers were successfully executed and the output is noted.