

Triggers

It is a procedure that starts automatically, if specific changes occur to the Database.

ie Trigger is a stored procedure that execute automatically whenever an event (insert / delete / update) occurs in the DB.

Parts of Trigger { Trigger Event
Condition (optional)
Trigger Action

Syntax:-

```
Create [OR Replace] Trigger trigger-name  
[ Before | After ] trigger Event ON table name  
[ for each row ]  
[ when condition ]
```

Declare

declaration statements,

Begin

executable statements,

Exception

Exception handling statement,

END;

Example: Let assume a table Customer.

ID	Name	Age	address	Salary
1	Ajay	32	Delhi	50000
2	Amit	35	Kanpur	45000
3	Anil	36	Lucknow	60000
4	Vinod	34	Pune	65000

Now we will create a trigger to display salary difference between the old value and new value when salary is updated.

⇒ Create or replace trigger display_salary_change
Before Delete or insert or update on Customer
for each row
when (New.ID > 0)

DECLARE

sal_diff number;

BEGIN

sal_diff := : New Salary - : old Salary;

dbms_output.put_line ('old salary: ' || : old Salary);

dbms_output.put_line ('New salary: ' || : New Salary);

dbms_output.put_line ('Salary difference: ' || sal_diff);

END;