

Trigger - SYNTAX

```
CREATE OR REPLACE TRIGGER <TriggerName>
{BEFORE, AFTER}
{DELETE, INSERT, UPDATE [OF COLUMN,.....]}
ON <TABLE NAME>
[FOR EACH ROW]
DECLARE

BEGIN

EXCEPTION

END;
```

Row Trigger - After trigger

```
SQL> create or replace trigger t2 after update or delete on stud21
for each row
declare
op varchar(10);
begin
if updating then
op:='update';
end if;
if deleting then
op:='Delete';
end if;
insert into stat values(:old.roll,op);
end;
/
SQL> update stud31 set roll =10 where roll = 6;
```

2 rows updated.

SQL> select * from stat;

ROLL OPERATION

2 update

2 update

6 update

6 update

STATEMENT/TABLE LEVEL Trigger (old/ new not allowed, fired once) – After Trigger

create or replace trigger t2 after update on stud21

declare

op varchar(10);

begin

if updating then

op:='update';

end if;

insert into stat values(",op);

end;

SQL> update stud31 set roll = 15 where roll =10;

2 rows updated.

SQL> select * from stat;

ROLL OPERATION

2 update

2 update

6 update

6 update

update

Before (row trigger)

```
create or replace trigger t4 before insert on emp
for each row
declare
msalary number(10);
begin
if :new.e_mo>200 then
raise_application_error(-20003,'eno should not be greater than 200');
end if;
end;
```

```
insert into emp values(201,1012,20000)
```

Enter value for 1: 201

Enter value for 2: 1012

Enter value for 3: 20000

```
old 1: insert into emp values(&1,&2,&3)
```

```
new 1: insert into emp values(201,1012,20000)
```

```
insert into emp values(201,1012,20000)
```

*

ERROR at line 1:

ORA-20003: eno should not be greater than 200

ORA-06512: at "SYSTEM.T4", line 5

ORA-04088: error during execution of trigger 'SYSTEM.T4'

Trigger on selected columns

create or replace trigger t2 after update of att or delete on stud21

for each row

declare

op varchar(10);

begin

if updating then

op:='update';

end if;

if deleting then

op:='Delete';

end if;

insert into stat values(:old.roll,op);

end;