

```

CREATE trigger <name>
BEFORE/AFTER <event>
ON TABLE <T>
FOR EACH ROW
WHEN <condition>
<action>

```

user defined name  
 insert T  
 update T  
 delete T  
 not in MySQL  
 SQL statements

### Example 3:

```

EMP (ssn, name, salary, dno)
DEPT (dnumber, tot-salary)

```

### ORACLE

```

Create trigger TOTSAL1
after insert on EMP
for each row
when (new.dno IS NOT NULL)
update DEPT
set tot-salary = tot-salary + new.salary
where dnumber = new.dno;

```

If NULL, then rows of dept are not checked

### MySQL

```

Create trigger TOTSAL1
after insert on EMP
for each row

```

✓

update dept

set tot-salary = tot-salary + new.salary  
where dnumber = new.dno AND  
new.dno IS NOT NULL;

Example 4 :

ORACLE :

Create trigger TOTSAL2

after update of salary on Emp  
for each row

when new.dno is not NULL

update dept

set tot-salary = tot-salary + new.salary  
- old.salary

where dnumber = new.dno;

mysql

Create trigger TOTSAL2

after update on Emp

for each row

update dept

set tot-salary = tot-salary + new.salary  
- old.salary

where dnumber = new.dno AND  
old.dno = new.dno → dno was not updated  
AND new.salary <> old.salary; → salary is updated

Meaning of BEFORE/AFTER

(Example does not work in MySQL)

DO NOT permit > 100 employees in EMP.

Create trigger LIMIT1

**BEFORE** insert on EMP

for each row

when (select count(\*) from EMP) = 100

// do not insert

select RAISE (ignore) // ORACLE

Insert Ignore // MySQL

Create trigger LIMIT2

**AFTER** insert on EMP

for each row

when (select count(\*) from EMP) > 100

delete from EMP where SSN = new.SSN;