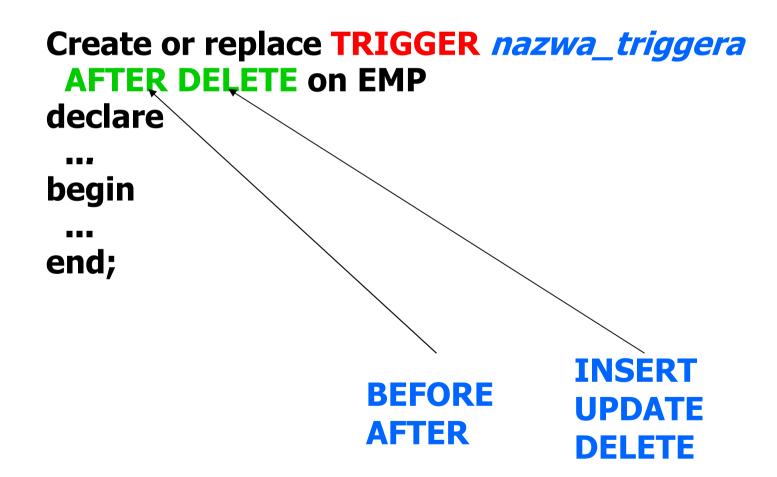
PL/SQL - wyzwalacze



PL/SQL - wyzwalacze a DDL

Create or replace TRIGGER nazwa_triggera

AFTER DELETE on EMP

begin

CREATE TABLE tabelka (p1 number);
end;

PL/SQL - wyzwalacze ograniczone do kolumn

Create or replace TRIGGER nazwa_triggera
BEFORE UPDATE of sal, deptno on EMP

begin

end;

PL/SQL - wyzwalacze kilku zdarzeń

Create or replace TRIGGER nazwa_triggera

BEFORE UPDATE or INSERT or DELETE on EMP

```
begin
 if inserting then
 elsif updating then
 elsif deleting then
 end if;
end;
```

PL/SQL - wyzwalacze

```
Create or replace TRIGGER numeruj
before insert on EMP
FOR EACH ROW
begin
if :new.EMPNO is null then
select NUMERATOR.nextval into :new.EMPNO from dual;
end if;
end;
```

PL/SQL - wyzwalacze użycie sekwencji

```
Create or replace TRIGGER nazwa_triggera
before update on EMP
FOR EACH ROW
begin
if :old.ENAME like 'S%' then
:new.SAL := :new.SAL+200;
end if;
end;
```

Perspektywy

CREATE, DROP VIEW

drop view emp_30;

create view emp_30 as select ename, sal from emp where deptno = 30;

create or replace view emp_30 as select empno, ename, sal from emp where deptno = 30;

Perspektywy złożone

```
create view emp_d_30 as
select e.empno numer, e.ename nazwisko,
d.dname wydzial
from emp e, dept d
where e.deptno = d.deptno
and e.deptno = 30;
```

```
create view emp_d_s as select deptno, sum(sal) suma from emp group by deptno;
```

```
create or replace view emp_30 as
 select empno numer, ename nazwisko, deptno nr_wydz
       from emp
        where deptno = 30;
select * from emp 30;
select numer, nazwisko from emp_30
where nr wydz = 20;
insert into emp_30
(numer, nazwisko, nr_wydz) values (7777,'Nowak',30);
```

```
create view emp_d_30 as
select e.empno numer, e.ename nazwisko
d.dname wydzial
from emp e, dept d
where e.deptno = d.deptno
and e.deptno = 30
```

```
insert into emp_d_30
(numer, nazwisko, wydział) values
(7777,'Nowak','produkcja');
```

```
create view emp_d_s as select e.deptno, sum(sal) suma from emp group by deptno;
```

insert into emp_d_30 (deptno, suma) values (50, 4500);

create view emp_30 as select ename, sal, deptno from emp where deptno = 30;

???????

insert into emp_d_30 (ename, sal, deptno) values ('Kowalski',3200,30);