Exo 2 :

CREATE OR REPLACE TRIGGER TRIGGER1

BEFORE INSERT or UPDATE ON dept

FOR EACH ROW

BEGIN

if (:new.DNAME is not NULL) then

:new.DNAME := upper(:new.DNAME);

end if;

if (:new.LOC is not NULL) then

:new.LOC := upper(:new.LOC);

end if;

END;

Exo 3 :

CREATE OR REPLACE TRIGGER nbemp

BEFORE DELETE OR INSERT OR UPDATE ON emp

FOR EACH ROW

BEGIN

if updating then

if (:new.deptno != :old.deptno) then

update dept set nbemp = nbemp - 1 where deptno = :old.deptno;

update dept set nbemp = nbemp + 1 where deptno = :new.deptno;

end if;

elsif deleting then

update dept set nbemp = nbemp - 1 where deptno = :new.deptno;

elsif inserting then

update dept set nbemp = nbemp + 1 where deptno = :new.deptno;

end if;

END;

Exo 4 :

CREATE OR REPLACE TRIGGER TR\_NEW\_EMP

BEFORE INSERT ON emp

declare

v\_nb number;

BEGIN

select count(\*) into v\_nb from emp where empno = :new.empnpo;

if (nb != 0) then

/\* error \*/

end if;

if (

END;