

Trigger 3

Create a table with 2 number fields a and b.

Write a trigger so that the value that is entered into the table satisfies the condition: $a+b > 75$.

Also if value of b is changed, it should not be changed to a smaller value.

Tuples that violate these conditions should not be entered.

```
SQL> create table numbers(a int, b int);  
Table created.
```

Trigger:

create or replace trigger checkval

before insert or update on numbers

for each row

begin

 if inserting then

 if (:new.a + :new.b) < 75 then

 raise_application_error(-20001, 'a + b is less than 75');

 end if;

 else

 if (:new.b < :old.b) then

 raise_application_error(-20001, 'New b is less than old b');

 end if;

 end if;

end;

/

Output:

```
SQL> /

Trigger created.

SQL> insert into numbers values(40,10);
insert into numbers values(40,10)
      *
ERROR at line 1:
ORA-20001: a + b is less than 75
ORA-06512: at "VIVEKMKN.CHECKVAL", line 4
ORA-04088: error during execution of trigger 'VIVEKMKN.CHECKVAL'
```

```
SQL> insert into numbers values(40,50);

1 row created.

SQL> update numbers set b = 44;
update numbers set b = 44
      *
ERROR at line 1:
ORA-20001: New b is less than old b
ORA-06512: at "VIVEKMKN.CHECKVAL", line 8
ORA-04088: error during execution of trigger 'VIVEKMKN.CHECKVAL'
```