

ASSIGNMENT

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 trigger3(a integer, b integer);  
Table created.
```

Trigger:

```
CREATE OR REPLACE TRIGGER t3  
BEFORE INSERT OR UPDATE ON trigger3  
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;
```

```
SQL> INSERT INTO trigger3 VALUES(12,10);  
INSERT INTO trigger3 VALUES(12,10)  
*  
ERROR at line 1:  
ORA-20001: A+B is less than 75  
ORA-06512: at "ZAMEELH.T3", line 4  
ORA-04088: error during execution of trigger 'ZAMEELH.T3'  
  
SQL> INSERT INTO trigger3 VALUES(52,26);  
1 row created.  
  
SQL> UPDATE trigger3 SET b=25 WHERE a=52 and b=26;  
UPDATE trigger3 SET b=25 WHERE a=52 and b=26  
*  
ERROR at line 1:  
ORA-20001: New B is less than old B  
ORA-06512: at "ZAMEELH.T3", line 8  
ORA-04088: error during execution of trigger 'ZAMEELH.T3'
```