

EXPERIMENT-15

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pavan T

```
SQL> CREATE TABLE instruct(  
  2  id NUMBER PRIMARY KEY,  
  3  name VARCHAR2(10) NOT NULL,  
  4  dname VARCHAR2(10) NOT NULL,  
  5  salary NUMBER CHECK(salary>10000)  
  6  );
```

Table created.

```
SQL> INSERT ALL  
  2  INTO instruct VALUES(1, 'HARSHA', 'CSE', 50000)  
  3  INTO instruct VALUES(2, 'ARUN', 'CSE', 60000)  
  4  INTO instruct VALUES(3, 'BASHA', 'ECE', 55000)  
  5  INTO instruct VALUES(4, 'DINESH', 'EEE', 65000)  
  6  SELECT * FROM DUAL;
```

4 rows created.

```
SQL> CREATE OR REPLACE TRIGGER display_changes  
  2  BEFORE UPDATE ON instruct  
  3  FOR EACH ROW  
  4  WHEN(NEW.ID=OLD.ID)  
  5  DECLARE  
  6  sal_diff number;  
  7  BEGIN  
  8  sal_diff:=:NEW.salary-:OLD.salary;  
  9  DBMS_OUTPUT.PUT_LINE('OLD SALARY: '||:OLD.salary);  
10  DBMS_OUTPUT.PUT_LINE('NEW SALARY: '||:NEW.salary);  
11  DBMS_OUTPUT.PUT_LINE('Salary difference : '||sal_diff);  
12  END;  
13  /
```

Trigger created.

```
SQL> DECLARE
  2  tot_rows NUMBER;
  3  BEGIN
  4  UPDATE instruct
  5  SET salary=salary*1.5;
  6  IF sql%notfound THEN
  7  DBMS_OUTPUT.PUT_LINE('no instructors updated');
  8  ELSIF sql%found THEN
  9  tot_rows:=sql%rowcount;
 10  DBMS_OUTPUT.PUT_LINE(tot_rows||' instructors updated');
 11  END IF;
 12  END;
 13  /
```

PL/SQL procedure successfully completed.

```
SQL> SET SERVEROUT ON
SQL> SET VERIFY OFF
SQL> /
OLD SALARY: 75000
NEW SALARY: 112500
Salary difference : 37500
OLD SALARY: 90000
NEW SALARY: 135000
Salary difference : 45000
OLD SALARY: 82500
NEW SALARY: 123750
Salary difference : 41250
OLD SALARY: 97500
NEW SALARY: 146250
Salary difference : 48750
4 instructors updated
```

PL/SQL procedure successfully completed.