Expno:11 **Triger**

SQL> create table revised(empid number(10),name varchar(10),salary number(10));

Table created.

SQL> insert into revised values(&empid,'&name',&salary);

Enter value for empid: 1

Enter value for name: Babu

Enter value for salary: 80000

old 1: insert into revised values(&empid,'&name',&salary)

new 1: insert into revised values(1,'Babu',80000)

1 row created.

SQL> /

Enter value for empid: 2

Enter value for name: Muthu

Enter value for salary: 60000

old 1: insert into revised values(&empid,'&name',&salary)

new 1: insert into revised values(2,'Muthu',60000)

1 row created.

SQL> /

Enter value for empid: 3

Enter value for name: Suji

Enter value for salary: 75000

old 1: insert into revised values(&empid,'&name',&salary)

new 1: insert into revised values(3,'Suji',75000)

1 row created.

SQL> /

Enter value for empid: 4

Enter value for name: varsha

Enter value for salary: 65000

old 1: insert into revised values(&empid,'&name',&salary)

new 1: insert into revised values(4,'varsha',65000)

1 row created.

SQL> /

Enter value for empid: 5

Enter value for name: Selva

Enter value for salary: 76000

old 1: insert into revised values(&empid,'&name',&salary)

new 1: insert into revised values(5,'Selva',76000)

1 row created.

SQL> select\*from revised

2 /

EMPID NAME SALARY

---------- ---------- ----------

1 Babu 80000

2 Muthu 60000

3 Suji 75000

4 varsha 65000

5 Selva 76000

SQL> create or replace trigger t1

2 after insert on revised

3 begin

4 /

Warning: Trigger created with compilation errors.

SQL> drop trigger t1

2 /

Trigger dropped.

SQL> set serveroutput on;

SQL> create or replace trigger t1

2 2 after insert on revised

3 3 begin

4 4 update revised set salary=25000 where salary>5000;

5 /

2 after insert on revised

\*

ERROR at line 2:

ORA-04071: missing BEFORE, AFTER or INSTEAD OF keyword

SQL> create or replace trigger t1

2 after insert on revised

3 begin

4 update revised set salary=85000 where salary>70000;

5 end;

6 /

Trigger created.

SQL> insert into revised values(6,'Sugan',45000);

1 row created.

SQL> insert into revised values(6,'Dinesh',75000);

1 row created.

SQL> select \* from revised;

EMPID NAME SALARY

---------- ---------- ----------

1 Babu 85000

2 Muthu 60000

3 Suji 85000

4 varsha 65000

5 Selva 85000

6 Sugan 45000

6 Dinesh 85000

7 rows selected.

SQL> drop trigger t1;

Trigger dropped.

SQL> desc oldbackup;

ERROR:

ORA-04043: object oldbackup does not exist

SQL> create table newbackup(empid number(10),name varchar(10),salary number(10));

Table created.

SQL> create table oldbackup(empid number(10),name varchar(10),salary number(10));

Table created.

SQL> create or replace trigger t2

2 after insert or update on revised

3 for each row

4 begin if inserting

5 then insert into newbackup values(:new.empid,:new.name,:new.salary);

6 elsif updating then insert into oldbackup

7 values(:old.empid,:old.name,:old.salary); end if;

8 end;

9 /

Trigger created.

SQL> insert into revised values(8,'Sabari',90000);

1 row created.

SQL> select \* from revised;

EMPID NAME SALARY

---------- ---------- ----------

1 Babu 85000

2 Muthu 60000

3 Suji 85000

4 varsha 65000

5 Selva 85000

6 Sugan 45000

6 Dinesh 85000

8 Sabari 90000

8 rows selected.

SQL> select \* from newbackup;

EMPID NAME SALARY

---------- ---------- ----------

8 Sabari 90000

SQL> select \* from oldbackup;

no rows selected

SQL> update revised set salary=65000 where empid=2;

1 row updated.

SQL> select \* from oldbackup;

EMPID NAME SALARY

---------- ---------- ----------

2 Muthu 60000

SQL> select \* from newbackup;

EMPID NAME SALARY

---------- ---------- ----------

8 Sabari 90000

SQL> create table faculty(fid number(2),fname varchar(15),dept v

archar(5),salary number(10));

create table faculty(fid number(2),fname varchar(15),dept varchar(5),salary number(10))

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

SQL> drop table faculty;

Table dropped.

SQL> create table faculty(fid number(2),fname varchar(15),dept varchar(5),salary number(10));

Table created.

SQL> insert into faculty values(&fid,'&fname','&dept',&salary);

Enter value for fid: 1

Enter value for fname: Babu

Enter value for dept: IT

Enter value for salary: 90000

old 1: insert into faculty values(&fid,'&fname','&dept',&salary)

new 1: insert into faculty values(1,'Babu','IT',90000)

1 row created.

SQL> /

Enter value for fid: 2

Enter value for fname: Dinesh

Enter value for dept: CSE

Enter value for salary: 80000

old 1: insert into faculty values(&fid,'&fname','&dept',&salary)

new 1: insert into faculty values(2,'Dinesh','CSE',80000)

1 row created.

SQL> /

Enter value for fid: 3

Enter value for fname: Viji

Enter value for dept: ECE

Enter value for salary: 67000

old 1: insert into faculty values(&fid,'&fname','&dept',&salary)

new 1: insert into faculty values(3,'Viji','ECE',67000)

1 row created.

SQL> /

Enter value for fid: 4

Enter value for fname: Yazhini

Enter value for dept: CSD

Enter value for salary: 78000

old 1: insert into faculty values(&fid,'&fname','&dept',&salary)

new 1: insert into faculty values(4,'Yazhini','CSD',78000)

1 row created.

SQL> /

Enter value for fid: 5

Enter value for fname: Guna

Enter value for dept: IT

Enter value for salary: 88000

old 1: insert into faculty values(&fid,'&fname','&dept',&salary)

new 1: insert into faculty values(5,'Guna','IT',88000)

1 row created.

SQL> create or replace trigger statment\_level\_trigger

2 before insert on faculty

3 for each row

4 declare

5 min\_salary constant number:=5000;

6 begin

7 if :new.salary<min\_salary then

8 raise\_application\_error(-20001,'Salary cannot be less than ' || min\_salary);

9 end if;

10 end;

11 /

Trigger created.

SQL> select \* from faculty;

FID FNAME DEPT SALARY

---------- --------------- ----- ----------

1 Babu IT 90000

2 Dinesh CSE 80000

3 Viji ECE 67000

4 Yazhini CSD 78000

5 Guna IT 88000

SQL> insert into faculty values(6,'anu','AI',4000);

insert into faculty values(6,'anu','AI',4000)

\*

ERROR at line 1:

ORA-20001: Salary cannot be less than 5000

ORA-06512: at "SYSTEM.STATMENT\_LEVEL\_TRIGGER", line 5

ORA-04088: error during execution of trigger 'SYSTEM.STATMENT\_LEVEL\_TRIGGER'

SQL> create table faculty\_log(fid number(2),fname varchar(15),de

pt varchar(10),old\_salary number(10),new salary number(10),updat

e\_time date);

create table faculty\_log(fid number(2),fname varchar(15),dept varchar(10),old\_salary number(10),new salary number(10),update\_time date)

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> create table faculty\_log(fid number(2),fname varchar(15),dept varchar(10),old\_salary number(10),new\_salary number(10),updat

e\_time date);

Table created.

SQL> desc faculty\_log;

Name Null? Type

----------------------------------------- -------- ----------------------------

FID NUMBER(2)

FNAME VARCHAR2(15)

DEPT VARCHAR2(10)

OLD\_SALARY NUMBER(10)

NEW\_SALARY NUMBER(10)

UPDATE\_TIME DATE

SQL> create or replace trigger trg\_after\_update\_faculty

2 after update on faculty

3 for each row

4 begin

5 insert into faculty\_log(fid,fname,dept,old\_salary,new\_salary,update\_time)

6 values(:old.fid,:old.fname,:old.dept,:old.salary,:new.salary,sysdate);

7 end;

8 /

Trigger created.

SQL> update faculty set salary=100000 where fid=1;

1 row updated.

SQL> select \* from faculty;

FID FNAME DEPT SALARY

---------- --------------- ----- ----------

1 Babu IT 100000

2 Dinesh CSE 80000

3 Viji ECE 67000

4 Yazhini CSD 78000

5 Guna IT 88000

SQL> select \* from faculty\_log;

FID FNAME DEPT OLD\_SALARY NEW\_SALARY UPDATE\_TI

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1 Babu IT 90000 100000 13-JUN-24