



PL/SQL Assignment

PL/SQL Package & Trigger

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EXERCISE

Write a row trigger to insert the existing values of the salary table in to a new table when the salary table is updated.

SOLUTION:

```
SQL> select * from employee_salary;
```

EMP_NO	BASIC	HRA	DA	TOTAL_DEDUCTION	NET_SALARY	GROSS_SALARY
2	15000	4000	1000	5000	15000	20000
1	31000	8000	1000	5000	35000	40000
3	14000	4000	1000	5000	15000	19000
4	14000	4000	1000	5000	15000	19000
5	13000	4000	1000	5000	15000	18000

```
SQL> get e:/p11.sql;
```

```
1 create or replace trigger t
2 after update on employee_salary
3 for each row
4 begin
5 insert into backup values
  (:old.emp_no,:old.gross_salary,:new.gross_salary);
6* end;
```

```
SQL> /
```

Trigger created.

```
SQL> update employee_salary set gross_salary=44000 where emp_no=1;
```

1 row updated.

```
SQL> select * from backup;
```

EMPNO	OLD_GROSS_SALARY	NEW_GROSS_SALARY
1	40000	44000

```
SQL> update employee_salary set gross_salary=20000 where emp_no=2;
```

1 row updated.

```
SQL> select * from backup;
```

EMPNO	OLD_GROSS_SALARY	NEW_GROSS_SALARY
1	40000	44000
2	17600	20000

```
SQL> update employee_salary set gross_salary=48000 where emp_no=1;
```

1 row updated.

```
SQL> select * from backup;
```

EMPNO	OLD_GROSS_SALARY	NEW_GROSS_SALARY
1	40000	44000
2	17600	20000
1	44000	48000

EXERCISE

Write a trigger on the employee table which shows the old values and new values of Ename after any updations on ename on Employee table.

SOLUTION:

```
SQL> select * from employee;
```

EMP_NO	EMPLOYEE_NAME	STREET	CITY
1	rajesh	first cross	gulbarga
2	paramesh	second cross	bidar
3	pushpa	ghandhi road	banglore
4	vijaya	shivaji nagar	manglore
5	keerthi	anand sagar street	bijapur

```
SQL> get e:/plsql/l12.sql;
```

```
1 create or replace trigger show
2 before update on employee
3 for each row
4 begin
5 dbms_output.put_line('the old name was :');
6 dbms_output.put_line(:old.employee_name);
7 dbms_output.put_line('the updated new name is :');
8 dbms_output.put_line(:new.employee_name);
9* end;
```

```
SQL> /
```

Trigger created.

```
SQL> update employee set employee_name='kiran' where emp_no=1;
```

the old name was :

rajesh

the updated new name is :

kiran

1 row updated.

```
SQL> select * from employee;
```

EMP_NO	EMPLOYEE_NAME	STREET	CITY
1	kiran	first cross	gulbarga
2	paramesh	second cross	bidar
3	pushpa	ghandhi road	banglore
4	vijaya	shivaji nagar	manglore
5	keerthi	anand sagar street	bijapur

