PL/SQL Assignment

PL/SQL Transaction & Cursors

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EXERCISE

Write a PL/SQL code to calculate the total and the percentage of marks of the students in four subjects from the table- Student with the schema given below.

STUDENT (RNO , S1 , S2, S3, S4, total, percentage)

SOLUTION:

```
SQL> create table student(rno number(10),s1 number(10),s2 number(10),s3
number(10),s4 number(10),total number(20),percentage number(6));

Table created.

SQL> insert into student(rno,s1,s2,s3,s4)values(10011,56,78,79,56);

1 row created.

SQL> insert into student(rno,s1,s2,s3,s4)values(10012,45,67,34,58);

1 row created.

SQL> insert into student(rno,s1,s2,s3,s4)values(10013,76,86,94,58);

1 row created.

SQL> insert into student(rno,s1,s2,s3,s4)values(10014,57,48,39,92);

1 row created.

SQL> select * from student;

        RNO      S1      S2      S3        S4    TOTAL    PERCENTAGE
           ---------- ---------- ---------- ---------- ---------- ------
 ---------10011      56      78      79        56
      10012      45      67      34        58
      10013      76      86      94        58
      10014      57      48      39        92

SQL> get e:/plsql/l7.sql;
```

```
  1  declare
  2  t student.total%type;
  3  p student.percentage%type;
  4  cursor stu is select * from student;
  5  rw stu%rowtype;
  6  begin
  7  open stu;
  8  loop
  9  fetch stu into rw;
 10  exit when stu%notfound;
 11  t:=rw.s1+rw.s2+rw.s3+rw.s4;
 12  p:=t*0.25;
 13  update student set total=t,percentage=p where rno=rw.rno;
 14  end loop;
 15  close stu;
 16* end;

 17  .
SQL> /

PL/SQL procedure successfully completed.

SQL> select * from student;
```

RNO	S1	S2	S3	S4	TOTAL	PERCENTAGE
10011	56	78	79	56	269	67
10012	45	67	34	58	204	51
10013	76	86	94	58	314	79
10014	57	48	39	92	236	59

EXERCISE

Write a PL/SQL code to calculate the total salary of first n records of emp table. The value of n is passed to cursor as parameter.

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
      6     12000     3000     800       4000       11800          15800

SQL> get e:/p9.sql;

  1  declare
  2  no_of_employee number;
  3  total_salary number:=0;
  4  cursor ec(n number) is select * from employee_salary
     where emp_no<=n;
  5  rw ec%rowtype;
  6  begin
  7  no:=&no;
  8  open ec(no_of_employee);
  9  loop
 10  fetch ec into rw;
 11  exit when ec%notfound;
 12  total_salary:=rw.gross_salary+total_salary;
 13  end loop;
 14  dbms_output.put_line('Total salary of'||no||' employee is '
     ||total_salary);
 15* end;
 16  .
SQL> /

Enter value for no_of_employee: 2
old   7: no_of_employee:=& no_of_employee;
```

```
new   7: no_of_employee:=2;

Total salary of2 employee is60000

PL/SQL procedure successfully completed.


SQL> /

Enter value for no_of_employee: 3
old   7: no_of_employee:=& no_of_employee;
new   7: no_of_employee:=3;

Total salary of3 employee is79000

PL/SQL procedure successfully completed.
```