

# PL/SQL Assignment

PL/SQL Collection & Object Oriented & Debugging

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Writ a PL/SQL procedure to find the number of students ranging from 100-70%, 69-60%, 59-50% & below 49% in each course from the student course table given by the procedure as parameter.



SQL> select \* from student enrollment;

ROLL_NO COURSE	COURSE_COD	SEM TOTAL_	MARKS PERC	ENTAGE
111 cs	1001	1	300	50
112 cs	1001	1	400	66
113 is	1002	1	465	77
114 is	1002	1	585	97

SQL> get e:/p13.sql;

```
1 create or replace procedure rank(crc varchar)
 2 is
 3 dis number:=0;
 4 first number:=0;
 5 sec number:=0;
 6 pass number:=0;
 7 cursor st is select * from student enrollment;
 8 r st%rowtype;
 9 begin
10 open st;
11 loop
12 fetch st into r;
13 exit when st%notfound;
14 if(r.course=crc)
15 then
16 if(r.percentage>=70 and r.percentage<=100)</pre>
17 then
18 dis:=dis+1;
19 end if;
   if(r.percentage>=60 and r.percentage<70)</pre>
20
22 first:=first+1;
23 end if;
24 if(r.percentage>=50 and r.percentage<60)
25 then
```



```
26 sec:=sec+1;
 27 end if;
 28 if(r.percentage>=35 and r.percentage<50)
 29 then
 30 pass:=pass+1;
 31 end if;
 32 end if;
 33 end loop;
 34 close st;
 35 dbms_output.put_line('distinction is '||dis);
 36 dbms output.put_line('first class is '||first);
 37 dbms output.put line('second class is '||sec);
 38 dbms output.put line('just pass is '||pass);
 39* end;
 40 .
SQL> /
Procedure created.
SQL> exec rank('cs');
distinction is 0
first class is 1
second class is 1
just pass is 0
PL/SQL procedure successfully completed.
SQL> exec rank('is');
distinction is 2
first class is 0
second class is 0
just pass is 0
PL/SQL procedure successfully completed.
```



Create a store function that accepts 2 numbers and returns the addition of passed values. Also write the code to call your function.



```
SQL> get e:/p14.sql;
  1 create or replace function addition(a number, b number)
  2 return number
  3 is
  4 begin
  5 dbms_output.put('the sum of '||a||' and '||b||' is :');
  6 return (a+b);
 7* end;
 8.
SOL> /
Function created.
SQL> begin
  2 dbms_output.put_line(addition(6,78));
  3 end;
  4.
SQL> /
the sum of 6 and 78 is: 84
PL/SQL procedure successfully completed.
```



Write a PL/SQL function that accepts department number and returns the total salary of the department. Also write a function to call the function.



```
SQL> select * from works;
```

E	EMP_NO	COMPANY_NAME	JOINING_D DEPTNO	DESIGNATION	SALARY	
	1	abc	23-NOV-00	project lead	40000	1
	2	abc	25-DEC-10	software engg	20000	2
	3	abc	15-JAN-11	software engg	1900	1
	4	abc	19-JAN-11	software engg	19000	2
	5	abc	06-FEB-11	software engg	18000	1
<pre>SQL&gt; get e:/plsql/p15.sql;  1   create or replace function tot_sal_of_dept(dno number) 2   return number  3   is 4   tot_sal number:=0; 5   begin 6   select sum(salary) into tot_sal from works where deptno=dno; 7   return tot_sal; 8* end;</pre>						
SQL>						
Function created.						
SQL> begin						
2	<pre>2 dbms_output.put_line('Total salary of DeptNo 1 is :'        tot_sal_of_dept(1));</pre>					
3 end; 4 .						
SQL> set serveroutput on;						



```
Total salary of DeptNo 1 is :77000

PL/SQL procedure successfully completed.

SQL> begin

2  dbms_output.put_line('total salary of dept 2 is :'||tot_sal_of_dept(2));
 3  end;
 4  .
SQL> /

Total salary of DeptNo 2 is :39000

PL/SQL procedure successfully completed.
```



Write a PL/SQL code to create,

- a) Package specification
- b) Package body.

For the insert, retrieve, update and delete operations on a student table.



```
SQL> get e:/plsql/l16p.sql;
  1 create or replace package alloperation
  3 procedure forinsert (rno number, sname varchar, crc
    varchar,gen varchar);
  4 procedure forretrive(rno number);
  5 procedure forupdate (rno number, sname varchar);
  6 procedure fordelete(rno number);
  7* end alloperation;
SQL> .
SQL> /
Package created.
SQL> get e:/plsql/l16pbody.sql;
  1 create or replace package body alloperation
  2 is
  3 procedure forinsert (rno number, sname varchar, crc
    varchar, gen varchar)
  4
    is
  5 begin
  6 insert into student values (rno, sname, crc, gen);
  7
    end forinsert;
  8 procedure forretrive(rno number)
 10 sname student.student name%type;
 11 crc student.course%type;
 12 gen student.gender%type;
 13 begin
 14 select student name, course, gender into sname, crc, gen
 15 from student where roll_no=rno;
 16 dbms_output.put_line(sname||' '||crc||' '||gen);
17 end forretrive;
18 procedure forupdate (rno number, sname varchar)
```



```
19 is
20 begin
21 update student set student_name=sname where roll_no=rno;
22 end forupdate;
23 procedure fordelete(rno number)
24 is
25 begin
26 delete student where roll no=rno;
27 end fordelete;
28* end alloperation;
29
SQL> /
Package body created.
SQL> select * from student;
   ROLL NO STUDENT NAME COURS GENDER
      111 ravi
                            cs male
      112 praveen cs male
      113 bhuvana is female
                            is female
      114 apparna
SQL> begin
 2 alloperation.forinsert(444,'vivekananda','ec','male');
 3 alloperation.forretrive(444);
 4 alloperation.forupdate(111,'swamy');
 5 end;
 6.
SQL> /
vivekananda ec male
PL/SQL procedure successfully completed.
SQL> select * from student;
```



ROLL NO STUDENT NAME	COURS	GENDER		
111 swamy	CS	male		
112 praveen	CS	male		
113 bhuvana	is	female		
114 apparna	is	female		
444 vivekananda	ес	male		
SQL> begin				
2 alloperation.fordelete(444)	;			
3 end; 4 .				
SQL> /				
PL/SQL procedure successfully completed.				
SQL> select * from student;				
ROLL NO STUDENT NAME	COLLES	GENDER		

ROLL_NO STUDENT_NAME	COURS	GENDER
111 swamy	CS	male
112 praveen	CS	male
113 bhuvana	is	female
114 apparna	is	female