

# Lab Assignment-09

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QUES 1: Write a PL/SQL block to calculate the incentive of an employee whose ID is 110.

SOLUTION:

```
declare
    incentive employees.commission_pct%type;
    salary1 employees.salary%type;
    var1 employees.salary%type;
begin
    select commission_pct, salary into incentive, salary1 from employees where
employee_id=&emp_id;
    dbms_output.put_line('Incentive is '||incentive);
    var1:=salary1*incentive;
    salary1:=var1+salary1;
    dbms_output.put_line('Salary is '||salary1);
end;
```

OUTPUT:

```
SQL> @ques1.sql
12 /
Enter value for emp_id: 178
old 6: select commission_pct,salary into incentive,salary1 from employees where employee_id =&emp_id;
new 6: select commission_pct,salary into incentive,salary1 from employees where employee_id =178;
Incentive is .15
Salary is 8050

PL/SQL procedure successfully completed.
```

QUES 2: Write a plsql block to find the area of a circle.

SOLUTION:

```
declare
    radius int;
    area int;
begin
    radius:=&radius;
    area:=3.14*radius*radius;
    dbms_output.put_line('Area of circle: '||area);
end;
```

OUTPUT:

```
SQL> @ques2.sql
9 /
Enter value for radius: 5
old 5: radius:=&radius;
new 5: radius:=5;
Area of circle: 79

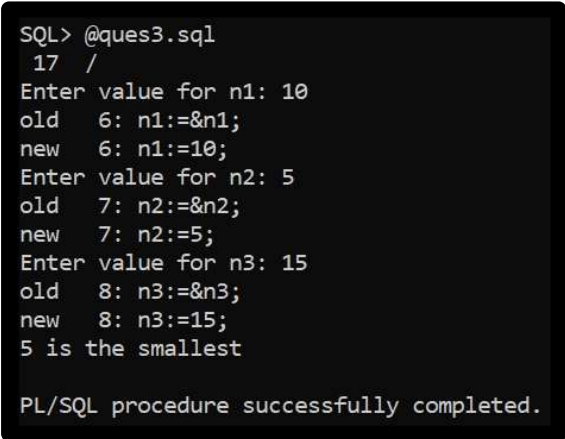
PL/SQL procedure successfully completed.
```

QUES 3: Write a plsql program to display smallest number among three user defined numbers.

SOLUTION:

```
declare
    n1 int;
    n2 int;
    n3 int;
begin
    n1:=&n1;
    n2:=&n2;
    n3:=&n3;
    if(n1<n2 and n1<n3) then
        dbms_output.put_line(n1||' is the smallest');
    elsif(n2<n1 and n2<n3) then
        dbms_output.put_line(n2||' is the smallest');
    else
        dbms_output.put_line(n3||' is the smallest');
    end if;
end;
```

OUTPUT:



```
SQL> @ques3.sql
17 /
Enter value for n1: 10
old 6: n1:=&n1;
new 6: n1:=10;
Enter value for n2: 5
old 7: n2:=&n2;
new 7: n2:=5;
Enter value for n3: 15
old 8: n3:=&n3;
new 8: n3:=15;
5 is the smallest

PL/SQL procedure successfully completed.
```

QUES 4: Write a function to find out the sum of square of each digit for a given number.

SOLUTION:

```
declare
    num int :=0;
    i int;
    s int :=0;
    r int;
begin
    num:=&num;
    while num > 0 loop
        r:=MOD(num, 10);
        s:=s+(r*r);
        num:=floor(num/10);
    end loop;
    dbms_output.put_line('The sum of digits is '||s);
end;
```

OUTPUT:

```
SQL> @ques4.sql
15 /
Enter value for num: 123
old 7: num:=&num;
new 7: num:=123;
The sum of digits is 14

PL/SQL procedure successfully completed.
```

QUES 5: Write a PL/SQL program to check whether a number is even or odd.

SOLUTION:

```
declare
    x int;
begin
    x := &x;
    if mod(x,2) = 0 then
        dbms_output.put_line('Even Number');
    else
        dbms_output.put_line('Odd Number');
    end if;
end;
```

OUTPUT:

```
SQL> @ques5.sql
11 /
Enter value for x: 10
old 4: x := &x;
new 4: x := 10;
Even Number

PL/SQL procedure successfully completed.
```

QUES 6: Write a PL/SQL program to check whether a date falls on weekend i.e. SATURDAY or SUNDAY.

SOLUTION:

```
declare
    dt Date;
    str varchar2(10);
begin
    dt:='&date';
    str:=to_char(dt,'DAY');
    if str not in ('SATURDAY', 'SUNDAY') then
        dbms_output.put_line('Week Day');
    else
        dbms_output.put_line('Weekend');
    end if;
end;
```

OUTPUT:

```
SQL> @ques6.sql
13 /
Enter value for date: 13-apr-2022
old 5: dt:='&date';
new 5: dt:='13-apr-2022';
Week Day

PL/SQL procedure successfully completed.
```

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