**Plsql-sheet-1**

**----------------------------------PL/SQL-----------------------------------------------------**

1. **declare SQL\*Plus number host variable h\_1 , Create a block that declares one number variable v\_1 and Selects maximum department number in v\_1 , then assign this value to the host variable h\_1 . Print the value of h\_1 using pl/sql using (dbms\_output). Print the h\_1 value using sql plus command.**

**🡪** **DECLARE**

**v\_1 NUMBER(2);**

**BEGIN**

**select max(deptno) into v\_1**

**from emp**

**group by deptno ;**

**:h\_1 := v\_1;**

**END;**

**/**

1. **Create a block that declares one variable v\_1 (data type is as column deptno in table emp) with initial value of 20. In the executable section, increase the salaries of employees in the department number v\_1. Print the number of rows affected.**

**🡪DECLARE**

**v\_rows\_affected varchar(30);**

**v\_1 emp.deptno%TYPE:=20;**

**BEGIN**

**update emp**

**set sal=sal+10**

**where deptno = v\_1;**

**v\_rows\_affected := (SQL%ROWCOUNT);**

**DBMS\_OUTPUT.PUT\_LINE (v\_rows\_affected);**

**END;**

**/**

1. **Accept employee number as a user input with sql\*plus substitution variable,**

**if employee salary is less than 1000 set the commission amount of employee to 10%, if employee salary is between 1000 and 2000 set the commission amount of employee to 15%, if employee salary is greater than 2000 set the commission amount of employee to 20%**

**🡪** **declare**

**v\_1 number;**

**v\_sal number;**

**begin**

**select sal into v\_sal from emp where empno=&v\_1;**

**if v\_sal<1000**

**then**

**update emp set comm=comm+sal\*0.1 where empno=v\_1;**

**elsif v\_sal between 1000 and 2000**

**then**

**update emp set comm=comm+sal\*0.15 where empno=v\_1;**

**elsif v\_sal>2000**

**then**

**update emp set comm=comm+sal\*0.20 where empno=v\_1;**

**end if;**

**end;**

**/**

**4. Create table table1 (id number, salary number) .And then Create a block to insert values in table1 using a loop .ids is inserted incrementally starting with 1 , the salary is 1000 for an employee with an even id and is 2000 for an employee with an odd id .**

**🡪create table table1 (id number,salary number)**

**declare**

**counter number :=1;**

**begin**

**loop**

**if mod(counter,2)=0**

**then**

**Insert into table1 values(counter,1000);**

**else**

**Insert into table1 values(counter,2000);**

**end if;**

**counter:=counter+1;**

**exit when (counter=10);**

**end loop;**

**end;**

**/**

**5.Create a block that declares a record with the same structure as table emp, in the executable section, select the data of the employee number 7900 and print his name and salary.**

**🡪declare**

**v\_rec emp%ROWTYPE;**

**begin**

**select \* into v\_rec from emp where empno=7900;**

**DBMS\_OUTPUT.PUT\_LINE('ID = 7900'||' , '||'Name = '||v\_rec.ename||' , '||**

**'Salary = '||v\_rec.sal);**

**end;**

**/**