SQL Practice Question

PL/SQL LAB:

1. WAP to print any statement.

```
set serverput on
begin
dbms_output.put_line('=====================================');
dbms_output.put_line('Welcome to PL/sql programming');
dbms_output.put_line('=====================================');
```

2. WAP to enter any two numbers and find out their sum, difference, product, quotient and remainder.

```
Set serveroutput on
Declare
no1 number(5);
no2 number(5);
s number(5);
d number(5);
p number(5);
q number(5);
rem number(5);
begin
no1:=&number1;
no2:=&number2;
S:=no1+no2;
d:=no1-no2;
p:=no1*no2;
q:=no1/no2;
rem:=mod(no1,no2);
```

```
dbms_output.put_line('Sum='||s);
dbms_output.put_line('Difference='||d);
dbms_output.put_line('Product='||p);
dbms_output.put_line('Quotient='||q);
dbms_output.put_line('Remainder='||rem);
end;
```

3. WAP to find out the greatest of any two numbers

```
set serveroutput on
declare
no1 number(5);
no2 number(5);
begin
no1:=&number(5);
no2:=&number(5);
if no1>=no2 then
dbms_output.put_line(no1||' is greatest');
else
dbms_output.put_line(no2||' is greatest');
end if;
end;
```

4. WAP to enter any number and find out whether it's positive or negative or zero

```
set serveroutput on
declare
num number(5);
begin
num:=&number;
if num>0 then
```

```
dbms_output.put_line(num||' is positive');
else if num<0 then
dbms_output.put_line(num ||' is negative');
else
dbms_output.put_line(num ||' is equal to zero');
end if;
end;
```

5. WAP to accept the monthly salary of any employee and find the bonus of 12% on annual salary if experience is more than 3 years and otherwise the bonus is Rs. 1000. After all calculate the total salary received by the employ on that month along with the bonus amount.

```
Declare
Msal number(7,2):=&msal;
Annsal number(9,2);
Bonus number(7,2);
doj date:='&date_of_join';
Exp number(3);
Totsal number(9,2);
Begin
Exp:=months_between(sysdate,doj)/12;
Annsal:=msal*12;
If exp>3 then
Bonus:=annsal*12/100;
Else
Bonus:=1000;
End if;
Totsal:=msal+bonus;
Dbms_output.put_line('Annual salary=Rs. '||annsal);
```

```
Dbms_output.put_line('Experience='||exp||' years');
Dbms_output.put_line('Bonus amount=Rs. '||bonus);
Dbms_output.put_line('Total salary drawn=Rs. '||totsal);
End;
```

6. WAP to accept any number and check whether that is a multiple of only 3 or only 5 or both 3 and 5 or none of them.

```
Declare
No number(4):=&no;
Begin
If mod(no,3)=0 then
If mod(no,5)=0 then
Dbms_output.put_line(no||' is multiple of both 3 and 5');
Else
Dbms_output.put_line(no||' is multiple of only 3');
End if;
Else
If mod(no,5)=0 then
Dbms_output.put_line(no||' is multiple of only 5');
Else
Dbms_output.put_line(no||' is multiple of none of 3 and 5);
End if;
End if;
End;
```

7. WAP to input any number and check whether it's even or odd.

```
set serveroutput on
declare
num number(4);
```

```
begin
num:=&number;
if mod(num,2)=0 then
dbms_output.put_line(num||' is even');
else
dbms_output.put_line(num||' is odd);
end if;
end;
```

8. WAP to find out the greatest of any three numbers.

```
set serveroutput on
declare
no1 number(4);
no2 number(4);
no3 number(4);
begin
no1:=&number1;
no2:=&number2;
no3:=&number3;
if no1>no2 and no1>no3 then
dbms_output.put_line(no1||' is the greatest');
elsif no>no3 and no2>no1 then
dbms_output.put_line(no2||' is the greatest');
else
dbms_output.put_line(no3||' is the greatest');
end if;
end;
```

9. WAP to enter any number and check whether it's a multiple of 3 or 7 or both 3 and 7 or not of 3 or 7.

```
set serveroutput on
declare
num number(5);
begin
num:=&number;
if mod(num,3)=0 and mod(num,7)=0 then
dbms_output.put_line(num|| ' is multiple of both 3 and 7');
elsif mod(num,3)=0 then
dbms_output.put_line(num|| 'is multiple of only 3');
elsif mod(num,7)=0 then
dbms_output.put_line(num|| ' is multiple of only 7);
else
dbms_output.put_line(num|| ' is multiple of 3 nor of 7);
end if;
end;
```

10. WAP to enter any alphabet and check it whether it's a consonant or a vowel.

```
Declare
Ch varchar2(1);
Begin
Ch:='&char';
If ch='a' or ch='e' or ch='I' or ch='o' or ch='u' or ch='A' or ch='E' or ch='I' or ch='O' or ch='U' then
dbms_output.put_line(num|| ' is a vowel);
else
dbms_output.put_line(num|| ' is a consonant);
end if;
```

```
end;
```

11. WAP to findout the factorial of any number.

```
declare
n number(3);
x number(2):=1;
f number(5):=1;
begin
n:=&number;
loop
f:=f*x;
x:=x+1;
exit when x>n;
end loop;
dbms_output.put_line('Factorial of' ||n||' ' is='||f);
end;
```

Cursors:-

12. WAP to delete the data for employees after entering job.

```
declare
no number(3);
begin
delete from employ where job='&job';
if sql%notfound then
dbms_output.put_line('There is no employee doing the job');
elsif sql%found then
dbms_output.put_line('Some data has been retrieved by the cursor');
enf if;
no:=sql%rowcount;
```

```
dbms_output.put_line('No of records deleted='||no);
end;
```

13. WAP to increase the sal of employees by 1000 rs. For deptno=10.

```
set serveroutput on
declare
x number(4);
begin
update emp set sal=sal+1000 where deptno=&deptno;
x:=sql%rowcount;
dbms_output.put_line(x||' no. of row updated');
end;
/
Set serveroutput on
declare
x number(4);
begin
delete from emp where job='&job';
x:=sql%rowcount;
dbms_output.put_line(x||' no. of row updated');
end;
/
Set serveroutput on
Declare
X number(4);
Begin
Update emp set sal=sal+1000 where deptno=&dno;
If sql%found then
```

dbms_output.put_line(‘some rows are retrieved by the query’);

elsif sql%notfound then

dbms_output.put_line(‘query is not able to retrieve any row’);

end if;

x:=sql%rowcount;

dbms_output.put_line(x||’ no. of row updated);

end;

14. **WAP to increase the salary for the employees of a particular department and enter the no of records updated,date,time,dept no and name of the person who increased the salary into another table called cursor_ret.**

Create table cursor_ret(mess varchar2(30),update_date date, time varchar2(10),deptno number(3),name varchar2(10));

Set serveroutput on

Declare

X number(4);

M varchar2(30);

T char(6);

D number(3);

Name varchar2(10) not null:=’ ’;

Begin

D:=&DNO;

Name:=’&your_name’;

Update employ set sal=sal+1000 where dno=D;

If sql%found then

dbms_output.put_line(‘some rows are retrieved by the query’);

if sql%notfound then

dbms_output.put_line(‘query is not able to retrieve any row’);

```
end if;
x:=sql%rowcount;
dbms_output.put_line(x||' no. of rows updated');
m:=concat(to_char(x),' no of rows updated on');
t:=to_char(sysdate,'hh24:mi');
insert into cursor_ret values(m,to_date(sysdate),t,D,name);
end;
```

15. WAP to insert the datas of theclerks from emp table to another table.

Clerk table:-

```
Create table cl_table(empno number(4),ename varchar2(10),sal number(8,2),job
varchar2(10),deptno number(3));
Declare
eno number(4);
name varchar2(10);
salary number(8,2);
dno number(3);
j varchar2(10);
cursor c1 is select empno,ename,sal,job,deptno from emp where job='principal';
begin
open c1;
loop
fetch c1 into eno,name,salary,j,dno;
exit when c1%notfound;
insert into cl_table values(eno,name,salary,j,dno);
end loop;
close c1;
end;
```