*) Conditional Statement in PL/SQL - [DMS]

i) If
ii) If Else
iii) Nested If
iv) If Else If

Note :-> The conditional statement in PL/SQL can only be used in Begin Block.

i) If

-> In the statement only If the condition is True then the output will Display.

Syntax :->

```
If <condition> Then
    statement 1
    statement 2
    .
    .
    statement N
End If ;
```

Eg:→

i) WAP to check value is greater-than 100 or Not.

Ans:

```
SQL> Declare
     A INT;
     Begin
     A := &A;
     If A > 100 Then
     DBMS_output.put_line ('A is Greater');
     End If;
     End;
     /
```

O/P:→ Enter value for a : 30

PL/SQL Procedure successfully completed.

```
SQL> /
Enter value for a : 200
A is Greater
```

2] WAP to check if A is greater-than equal to B or not. Then find the product of A & B.

Ans.

```
SQL> Declare
     A INT;
     B INT;
     Begin
     A := &A;
     B := &B;
     If A>=B Then
     DBMS_Output.put_Line(A*B);
     End If;
     End;
     /
```

O/P:→ Enter value for a: 10
Enter value for b: 10
100

ED

1] DBMS_output.put_line('The Product of A and B is: ' || (A*B));

O/P:→ The Product of A and B is: 100.

2] Enter value for a: 10
Enter value for b: 20
------ → If else

2) If Else

→ If the If condition fails then Else statements will execute.

→ This means If condition is True the If statement will execute. if Not Else statement are execute.

Syntax:→

```
If < condition > Then
T   statement 1
    statement 2
    .
    .
    .
    statement N
Else
F   statement 1
    statement 2
    .
    .
    .
    statement N
End If;
```

Eg:->

1) WAP to find Greater Number between A and B.

Ans.

```
SQL> Declare
        A INT;
        B INT;
     Begin
     A := &A;
     B := &B;
     If A > B Then
     DBMS_output.put_line('A is Greater than B');
     Else
     DBMS_output.put_line('B is Greater than A');
     End If;
     End;
      /
```

OIP:-> 1) Enter value for a: 20
Enter value for b: 30
B is Greater than A

(OR)

2) Enter value for a: 50
Enter value for b: 20
A is Greater than B

2] WAP to check Given Number is Even or Odd.

```
SQL> Declare
       A INT;
     Begin
       A := &A;
     If MOD(A,2) =0 Then
     DBMS_output.put_Line(A || 'Is a Even Number');
     Else
     DBMS_output.put_Line(A || 'Is odd Number');
     End If;
     End;
      /
```

O/P:→ 1] Enter value for a: 2
2 Is a Even Number

2] Enter value for a: 3
3 Is odd Number

3] WAP to check Number is Even Number and Divisible by 3.

Ans.

```
SQL> Declare
     A INT;
     Begin
     A := &A;
     If MOD(A,2)=0 and MOD(A,3)=0 Then
     DBMS_output.put_Line (A);
     Else
     DBMS_output.put_Line ('Not GOT');
     End If;
     End;
      /
```

OIP:→1] Enter value for a: 6
6

(OR)

2] Enter value for a: 9
Not GOT

4) WAP to check character is consonant or vowel.

SOL > Declare

???

4) If ElsIf

→ If the If condition fails then ElsIf statements with a condition are executed.

→ ElsIf condition is fails then Else statements are executed.

syntax :→

```
If <condition> Then
T  statement 1
   statement 2
   .
   .
   statement N
F
ElsIf <condition> Then
T  statement 1
   statement 2
   .
   .
   statement N
F
Else
   statement 1
   statement 2
   .
   .
   statement N

End If ;
```

Eg:→

1) WAP to find A is Greater than B or Both are equ or B is Greater than A.

Ans.

```
SQL> Declare
     A INT;
     B INT;
     Begin
     A := &A;
     B := &B;
     If A > B Then
     DBMS_output.put_Line ('A is Greater than B');
     Elsif A = B Then
     DBMS_Output.put_Line ('Both A and B are Equal');
     Else
     DBMS_output.put_Line ('B is Greater than A');
     End If;
     End;
     /
```

O/P:→ 1) Enter value for a: 100
Enter value for b: 20
A is Greater than B

2) Enter value for a: 20
Enter value for b: 100
B is Greater than A

3) Enter value for a: 100
Enter value for b: 100
Both A and B are Equal

* (Imp) *

2] WAP to check Empls are getting Salary more than 3000 or Equal to 3000 or Less than 3000.

Ans.

```
SQL > Declare
        A INT;
        B varchar(20) := &B;
      Begin
        Select sal INTO A
        From Emp
        Where EName = B;
      If A > 3000 Then
    DBMS_output.put_Line(B || 'salary is Greater than 3000');
    ElsIf A = 3000 Then
    DBMS_output.put_Line(B || 'Salary is Equal to 3000');
     Else
    DBMS_output.put_Line (B || 'salary is less than 3000');
     End If;
     End;
      /
```

O/P! → 1] Enter value for b: 'MILLER'
MILLER SALARY Is less than 3000

2] Enter value for b: 'SCOTT'
SCOTT Salary is Equal to 3000

3] Enter value for b: 'KING'
KING Salary is Greater than 3000