SQL> conn as sysdba;

Enter user-name: scott

Enter password: \*\*\*\*\*

Connected.

SQL> set serveroutput on;

SQL> declare

2 begin

3 dbms\_output.put\_line('hello word');

4 end;

5 /

hello word

PL/SQL procedure successfully completed.

SQL> declare

2 i number(10):=10;

3 begin

4 dbms\_output.put\_line(i);

5 end;

6 /

10

PL/SQL procedure successfully completed.

SQL> declare

2 i number(10):=10;

3 begin

4 dbms\_output.put\_line('I is='||i);

5 end;

6 /

I is=10

PL/SQL procedure successfully completed.

SQL> declare

2 i number(10):=10;

3 j number(10):=20;

4 begin

5 dbms\_output.put\_line(i+j);

6 end;

7 /

30

PL/SQL procedure successfully completed.

SQL> declare

2 i number(10):=10;

3 j number(10):=20;

4 begin

5 dbms\_output.put\_line('sum is=');

6 dbms\_output.put\_line(i+j);

7 end;

8 /

sum is=

30

PL/SQL procedure successfully completed.

SQL> declare

2 i number(15);

3 j number(16);

4 k number(17);

5 begin

6 i:=20;

7 j:=30;

8 k:=i+j;

9 dbms\_output.put\_line('K is='||k);

10 end;

11 /

K is=50

PL/SQL procedure successfully completed.

SQL> declare

2 i number(15);

3 j number(16);

4 k number(17);

5 begin

6 i:=&i;

7 j:=&j;

8 k:=i+j;

9 dbms\_output.put\_line('K is='||k);

10 end;

11 /

Enter value for i: 78

old 6: i:=&i;

new 6: i:=78;

Enter value for j: 89

old 7: j:=&j;

new 7: j:=89;

K is=167

PL/SQL procedure successfully completed.

SQL> declare

2 x number(15);

3 begin

4 x:=10;

5 update employee set salary=50000 where rno=1;

6 end;

7 /

PL/SQL procedure successfully completed.

SQL> select \*from employee;

RNO NAME CITY SALARY

---------- -------------------- -------------------- ----------

6 hinal shital 90000

1 Bhavika Adtala 50000

2 Himanshi Adtala 50000

1 Himanshi Adtala 50000

3 Bhavika Adtala 30000

5 Dipali Pania 40000

6 rows selected.

SQL> declare

2 x number(15);

3 begin

4 insert into employee values(6,'hinal','shital',90000);

5 end;

6 /

PL/SQL procedure successfully completed.

SQL> declare

2 x number(15);

3 begin

4 x:=10;

5 update employee set salary=salary\*10;

6 end;

7 /

PL/SQL procedure successfully completed.

SQL> select \*from employee;

RNO NAME CITY SALARY

---------- -------------------- -------------------- ----------

6 hinal shital 900000

1 Bhavika Adtala 500000

2 Himanshi Adtala 500000

1 Himanshi Adtala 500000

3 Bhavika Adtala 300000

5 Dipali Pania 400000

6 rows selected.

Types of conditional structure

a]

SQL> set serveroutput on;

SQL> declare

2 no number(10);

3 begin

4 no:=20;

5 if(no<70)then

6 dbms\_output.put\_line('small');

7 end if;

8 end;

9 /

small

PL/SQL procedure successfully completed.

User input number:-

1]

SQL> declare

2 no number(10);

3 begin

4 no:=&no;

5 if(no<70)then

6 dbms\_output.put\_line('small');

7 end if;

8 end;

9 /

Enter value for no: 90

old 4: no:=&no;

new 4: no:=90;

PL/SQL procedure successfully completed.

2]

SQL> declare

2 no number(10);

3 begin

4 no:=&no;

5 if(no<70)then

6 dbms\_output.put\_line('small');

7 end if;

8 end;

9 /

Enter value for no: 40

old 4: no:=&no;

new 4: no:=40;

small

PL/SQL procedure successfully completed.

b]

1]

SQL> declare

2 no number(20);

3 begin

4 no:=20;

5 if(no>70)then

6 dbms\_output.put\_line('small');

7 else

8 dbms\_output.put\_line('biggest');

9 end if;

10 end;

11 /

biggest

PL/SQL procedure successfully completed.

2]

SQL> declare

2 a number(20);

3 b number(20);

4 begin

5 a:=10;

6 b:=30;

7 if a>b then

8 dbms\_output.put\_line('a is big'||a);

9 else

10 dbms\_output.put\_line('b is big'||b);

11 end if;

12 end;

13 /

b is big30

PL/SQL procedure successfully completed.

3]

SQL> declare

2 a number(20);

3 b number(20);

4 begin

5 a:=&a;

6 b:=&b;

7 if a>b then

8 dbms\_output.put\_line('a is big'||a);

9 else

10 dbms\_output.put\_line('b is big'||b);

11 end if;

12 end;

13 /

Enter value for a: 80

old 5: a:=&a;

new 5: a:=80;

Enter value for b: 60

old 6: b:=&b;

new 6: b:=60;

a is big80

PL/SQL procedure successfully completed.

C]

1]

SQL> declare

2 x number(3);

3 y number(5);

4 begin

5 x:=200;

6 y:=300;

7 if(x=y)then

8 dbms\_output.put\_line('equal');

9 elsif(x>y)then

10 dbms\_output.put\_line('biggest');

11 else

12 dbms\_output.put\_line('smallest');

13 end if;

14 end;

15 /

smallest

PL/SQL procedure successfully completed.

2]

SQL> declare

2 a number(3):=100;

3 begin

4 if(a=10)then

5 dbms\_output.put\_line('value of a is 10');

6 elsif(a=20)then

7 dbms\_output.put\_line('value of a is 20');

8 elsif(a=30)then

9 dbms\_output.put\_line('value if a is 30');

10 else

11 dbms\_output.put\_line('non of the value is matching');

12 end if;

13 dbms\_output.put\_line('exat value of a is:'||a);

14 end;

15 /

non of the value is matching

exat value of a is:100

PL/SQL procedure successfully completed.

D]

1]

SQL> declare

2 grade char(1):='b';

3 begin

4 case grade

5 when 'a' then dbms\_output.put\_line('Excellent');

6 when 'b' then dbms\_output.put\_line('very good');

7 when 'c' then dbms\_output.put\_line('well done');

8 when 'd' then dbms\_output.put\_line('you pass');

9 when 'e' then dbms\_output.put\_line('better try again');

10 end case;

11 end;

12 /

very good

PL/SQL procedure successfully completed.

Hw

SQL> declare

2 a number(20):=&a;

3 begin

4 if a=1 then

5 dbms\_output.put\_line('sunday');

6 elsif a=2 then

7 dbms\_output.put\_line('monday');

8 elsif a=3 then

9 dbms\_output.put\_line('Tuesday');

10 elsif a=4 then

11 dbms\_output.put\_line('wednesday');

12 elsif a=5 then

13 dbms\_output.put\_line('Thursday');

14 elsif a=6 then

15 dbms\_output.put\_line('Friday');

16 elsif a=7 then

17 dbms\_output.put\_line('Saturday');

18 else

19 dbms\_output.put\_line('Enter proper value');

20 end if;

21 end;

22 /

Enter value for a: 6

old 2: a number(20):=&a;

new 2: a number(20):=6;

Friday

PL/SQL procedure successfully completed.

3]

A]

I]

SQL> declare

2 i number(3):=1;

3 begin

4 loop

5 exit when(i>=10);

6 dbms\_output.put\_line(i);

7 i:=i+1;

8 end loop;

9 end;

10 /

1

2

3

4

5

6

7

8

9

PL/SQL procedure successfully completed.

2]

SQL> declare

2 i number:=0;

3 begin

4 loop

5 i:=i+2;

6 exit when(i>10);

7 dbms\_output.put\_line('loop exit as the value of i is'||to\_char(i));

8 end loop;

9 end;

10 /

loop exit as the value of i is2

loop exit as the value of i is4

loop exit as the value of i is6

loop exit as the value of i is8

loop exit as the value of i is10

PL/SQL procedure successfully completed.

While loop

1]

SQL> declare

2 val1 number;

3 val2 number;

4 begin

5 val1:=200;

6 val2:=1;

7 while(val2<=1)

8 loop

9 dbms\_output.put\_line(val1\*val2);

10 val2:=val2+1;

11 end loop;

12 end;

13 /

200

PL/SQL procedure successfully completed.

2]

SQL> declare

2 val1 number;

3 val2 number;

4 begin

5 val1:=200;

6 val2:=1;

7 while(val2<=10)

8 loop

9 dbms\_output.put\_line(val1\*val2);

10 val2:=val2+1;

11 end loop;

12 end;

13 /

200

400

600

800

1000

1200

1400

1600

1800

2000

PL/SQL procedure successfully completed.

3]

SQL> declare

2 val1 number;

3 val2 number;

4 begin

5 val1:=&val1;

6 val2:=&val2;

7 while(val2<=10)

8 loop

9 dbms\_output.put\_line('values are'||val1\*val2);

10 val2:=val2+1;

11 end loop;

12 end;

13 /

Enter value for val1: 4

old 5: val1:=&val1;

new 5: val1:=4;

Enter value for val2: 5

old 6: val2:=&val2;

new 6: val2:=5;

values are20

values are24

values are28

values are32

values are36

values are40

PL/SQL procedure successfully completed.

For\_loop

SQL> declare

2 i number(1);

3 begin

4 --outer loop

5 for i in 1..3

6 loop

7 dbms\_output.put\_line('i is'||i);

8 end loop;

9 end;

10 /

i is1

i is2

i is3

PL/SQL procedure successfully completed.

SQL> declare

2 i number(1);

3 j number(1);

4 begin

5 --outer loop

6 for i in 1..3

7 loop

8 --inner loop

9 for j in 1..3

10 loop

11 dbms\_output.put\_line('i is:'||i||'and j is'||j);

12 end loop;

13 end loop;

14 end;

15 /

i is:1and j is1

i is:1and j is2

i is:1and j is3

i is:2and j is1

i is:2and j is2

i is:2and j is3

i is:3and j is1

i is:3and j is2

i is:3and j is3

PL/SQL procedure successfully completed.

Reverse

SQL> declare

2 i number(1);

3 j number(1);

4 begin

5 --outer loop

6 for i in reverse 1..3

7 loop

8 dbms\_output.put\_line('i is'||i);

9 end loop;

10 end;

11 /

i is3

i is2

i is1

PL/SQL procedure successfully completed.

II]sequential control

SQL> declare

2 x number(10):=10;

3 begin

4 loop

5 x:=x+3;

6 if x>20 then

7 goto stop;

8 end if;

9 end loop;

10 <<stop>>

11 dbms\_output.put\_line('outside loop');

12 end;

13 /

outside loop

PL/SQL procedure successfully completed.

1] next value generate

SQL> declare

2 x number(15):=10;

3 begin

4 loop

5 dbms\_output.put\_line(x);

6 x:=x+10;

7 if x>50 then

8 exit;

9 end if;

10 end loop;

11 dbms\_output.put\_line('after exit x is:'||x);

12 end;

13 /

10

20

30

40

50

after exit x is:60

PL/SQL procedure successfully completed.

2]factorial number

SQL> declare

2 i number(10):=1;

3 n number(10):=5;

4 f number(10):=1;

5 begin

6 for i in 1..n

7 loop

8 f:=f\*i;

9 dbms\_output.put\_line('the factorial of'||i||'is:'||f);

10 end loop;

11 end;

12 /

the factorial of1is:1

the factorial of2is:2

the factorial of3is:6

the factorial of4is:24

the factorial of5is:120

PL/SQL procedure successfully completed.

Userdefine factorial number

SQL> declare

2 i number(10):=1;

3 n number(10):=5;

4 f number(10):=1;

5 begin

6 for i in 1 .. &n

7 loop

8 f:=f\*i;

9 dbms\_output.put\_line('the factorial of'||i||'is:'||f);

10 end loop;

11 end;

12 /

Enter value for n: 6

old 6: for i in 1 .. &n

new 6: for i in 1 .. 6

the factorial of1is:1

the factorial of2is:2

the factorial of3is:6

the factorial of4is:24

the factorial of5is:120

the factorial of6is:720

PL/SQL procedure successfully completed.