E. No: 9

PLISAL CONDITIONAL AND ITERATIVE STATEMENTS

### AIH:

To write PLISQL programs using conditional and iterative statements.

#### PROCEDURE:

Steps to write and execute PLISQL

\*As we want output of PLISQL program on screen, before starting writing anything type.

SOL > SET SERVEROUTPUT ON

- \*. Jo write program, use Notepad through Oracle using ED command

  SQL> ED ProName
- \*. Type the program save and exit.
- \* Jo run the peogram SQL >@ ProName

### BASIC SYNTAX OF PLISAL:

DECLARE

/\* variables can be declared here \*/

BEGIN

/\* Executable statements can be written here \*/

EXCEPTION

1\* Error handlers can be written here \*/

END;



```
Decision Making with If statement:
Syntax:
 If (Test_condition) then
set of statements
 else
set of statements
End if;
For Nested IF-ELSE Statement we can use IF--ELSIF-ELSE as follows:
If (Test_condition) then
set of statements
Elsif (condition)
set of statements
End if;
LOOPING STATEHENTS:
   *. For executing the set of statements repeatedly we use loops
   * Oracle supports looping statements like GOTO, FOR, WHILE & LOOP.
GIOTO:
<< Label>>
set of statements
Goto label;
FOR LOOP:
For evary in [Reverse] < INI_value> . . . < End_value>
set of statements.
End loop;
WHILE LOOP:
while (condition) loop
set of statements
End loop;
```





09/03/2022

Ex. NO.10

PLISAL PROCEDURES ON SAMPLE EXERCISES

AIH:

To write PLISAL programs using procedures.

PROCEDURE:

Basic syntax of PLISQL:

DECLARE

/\* variables can be declared here \*/

BEGIN

/\* Executable statements can be written here \*/

EXCEPTION

/\* Error handlers can be written here \*/

END;

SYNTAX:

CREATE (OR REPLACE) PROCEDURE procedure-name

[(Parameter [, parameter])]

IS

[declaration\_section]

BEGIN

executable\_section

[EXCEPTION

Exception\_section]

END[procedure\_name];





11/03/2022

EX NO: 11

PLISAL FUNCTIONS

AIH:

To write PLISAL programs using functions

PROCEDURE:

SYNTAX of PLISAL:

DECLARE

/\* variables can be declared here\*/

BEGIN

/\* Executable statements can be written here \*/

EXCEPTION

/\* Error handless can be written here \*/

END:

### Steps to write and Execute PL/SQL:

\*As we want output of PLISQL program on screen, before starting writing anything type.

SAL> SET Serverouput on

\*. To write program, use Notepad through Oracle using ED. command.

SQL> ED ProName

- \*. Type the program save and exit
- \*. To run the program

SQL > @ Proname



SYNTAX FOR FUNCTIONS:

CREATE (OR REPLACE) FUNCTION function name

[(parameter [, parameter])]

RETURN return-datatype

ISIAS

[declaration\_section]

BEGIN

executable\_section

[EXCEPTION

Exaption\_section]

END [function\_name];





16.03.2022 Ex.No: 12

#### PLISAL CURSORS

#### AIH:

To create a database using implicit and explicit cursors.

## PROCEDURE:

### Cursor:

A cursor is a pointer to the context area. PLISQL controls the context area through a cursor. A cursor holds the rows (one or more) returned by a SQL statement. The set of rows the cursor holds is referred to as the active set.

## Types of Cursons:

There are two types of cursors:

- 1] Implicit cursors
- 2] Explicit cursors.

### IMPLICIT CURSORS:

- =) Implicit cursors are automatically created by Oracle whenever an SQL statement is executed, when there is no explicit cursor for the statement.
- => Programmers cannot control the implicit cursors and the information in it.
- =) Implicit cursors has attributes such as 1. Found, 1.15 OPEN, 1.Notfound and 1. Rowcount. SQL cursor has additional attributes such as 1. Bulk\_rowcount and 1. Bulk\_Exceptions, to use with FORALL statement.





### EXPLICIT CURSORS:

- => Explicit airsons are programmer-defined cursors for gaining more control over the context area.
- =) It should be defined in the declaration section of the PLISQL Block.
- =) It is created on a SELECT statement which returns more than one row

## Syntax:

CURSOR aussor-name 13 select-statement;