ASSIGNMENT 10

Afm : Write and execute PLISQL block to implement all types of cursor on above DB.

• Write simple PLISQL programs to perform different operations on tables

• Write cursor and execute it on table

Objective: . To understand PLISQL

· To understand the concept of curson.

Theory :-

for processing an SQL statement which contains all the information needed for processing the statement.

· A cursor is a pointer to this context area · PLISQL controls the context area through a cursor · A cursor holds the rows returned by SQL statement · The set of rows the cursor holds is referred to as the active set ·

· You can name a cursor so that It could be referred to in a program to fetch and process the rows returned by the SQL statement. There are two types of cursors -

1) Implicit 2) Explicit

Implicit Cursors: - . They are automatically created when an Soi statement is executed, when there is no explicit cursor for the statement. Programmers cannot control the implicit cursors and the information in it:

· Whenever a DML statement is Essued, an implicit cursor is associate with it. For INSERT, the cursor holds the data to be inserted. For UPDATE & DELETE, the cursor identifies the rows that would be affected

Attributes for implicit cursor - % FOUND, % ISOPEN, % NOTFOUND,
% ROWCOUNT, % BULK_ROWCOUNT, % BULK_EXCEPTIONS . Any Sql
cursor attribute will be accessed as sql % attribute_name.

Eg: - delare total_rows number (2);
begin
update customers set salary = salary + 500;

if sql % not found then
dbms-output.put_line ('no customers selected');
elsif sql % found then
total rows := sql % row count;
dbms_output.put_line (total rows II' customer selected');
end if;
end;

Explicit Cursor: These are program defined cursors for gaining more control over the context area . An explicit cursor should be defined in the declaration section of the PLISQL block. It is created on a SELECT statement which returns more than one row.

1) Creating: cursor cursor rame is select. Statement;

2) Declaring: cursor c_customers is select id, name from customers;

3) Opening: open c_customers;

4) Fetching: fetch c_customers into c_id, C-name;

5) Closing: close c_customers;

Eg: cursor c_customers is select ed, name pron customers begin open c_customers; loop

fetch c_customers ento c_Ed, c_name; end loop;

close c_customers; end;

Conclusion: Understood the concept of PLISQL block by Emplementing all types of cursors on DB.