Ex.No.7

CURSOR

AIM

To implement cursors in DBMS for efficient row-by-row data retrieval and manipulation.

CREATING A TABLES

SQL> create table emp1 (id number(6), name varchar2 (50), basic number(10,2));

Table created.

SQL> create table cust (id number(6), name varchar2(50), address varchar2(100));

Table created.

INSERTING VALUES INTO TABLE

SQL> insert into emp1 values(1, 'kabesh', 5000);

1 row created.

SQL> insert into emp1 values(2, 'kamalesh', 6000);

1 row created.

SQL> insert into emp1 values(3, 'sanjay', 7000);

1 row created.

SQL> insert into cust values(101, 'karthik', 'Namakkal');

```
1 row created.
SQL> insert into cust values(102, 'jegan', 'Salem');
1 row created.
SQL> insert into cust values (103, 'kavin', 'Erode');
1 row created.
SQL> commit;
Commit complete.
IMPLICIT CURSOR
EXAMPLE 1
SQL> declare
    totalrows number(2);
    begin
    update emp1 set basic = basic + 500;
    if sql%notfound then
      dbms_output.put_line('No emp1loyees updated.');
      elsif sql%found then
      totalrows := sql%rowcount;
      dbms_output.put_line(totalrows | | 'emp1loyees updated.');
   end if;
 end;
3 emp1loyees updated.
PL/SQL procedure successfully completed.
EXAMPLE 2
```

SQL> declare

```
deleted number(2);
   begin
    delete from emp1 where basic < 5500;
    if sql%notfound then
      dbms output.put line('no emp1loyees deleted.');
    else
      deleted := sql%rowcount;
     dbms_output.put_line(deleted || 'emp1loyees deleted.');
   end if;
 end;
 /
No emp1loyees deleted.
PL/SQL procedure successfully completed.
EXAMPLE 3
SQL> declare
    total_inserted number(2);
  begin
    insert into customers values (104, 'iyyappan', 'perundurai');
    insert into customers values (105, 'praveen', 'erode');
    total inserted := sql%rowcount;
    dbms_output.put_line(total_inserted || ' customers inserted.');
 commit;
 end;
1 customers inserted.
PL/SQL procedure successfully completed.
EXPLICIT CURSOR
EXAMPLE 1
SQL> declare
```

```
c_id cust.id %type;
    c_name cust.name%type;
    c_addr cust.address%type;
    cursor c cust is
    select id, name, address from customers;
  begin
    open c_cust;
    loop
     fetch c_cust into c_id, c_name, c_addr;
     exit when c_cust%notfound;
     dbms_output.put_line(c_id || ' ' || c_name || ' ' || c_addr);
   end loop;
   close c_cust;
 end;
101 Karthik Namakkal
102 Jegan Salem
103 Kavin Erode
PL/SQL procedure successfully completed.
```

EXAMPLE 2

```
SQL> declare
    e_id emp1.id%type;
    e_name emp1.name%type;
    e_basic emp1.basic%type;

cursor emp1_cursor is
    select id, name, basic from emp1l68 where basic > 5500;

begin
    open emp1_cursor;
loop
    fetch emp1_cursor into e_id, e_name, e_basic;
```

```
exit when emp1_cursor%notfound;
     dbms_output_line('id: ' || e_id || ', name: ' || e_name || ',
basic: ' | | e_basic);
   end loop;
   close emp1 cursor;
 end;
 /
ID: 1, Name: kamalesh, Basic: 6500
ID: 2, Name: sanjay, Basic: 7500
PL/SQL procedure successfully completed.
EXAMPLE 3
SQL> declare
    c_id customers.id%type;
    c_name customers.name%type;
    c addr customers.address%type;
    cursor t_customers is
      select id, name, address from customers where address = 'salem';
  begin
   open t customers;
   loop
     fetch t_customers into c_id, c_name, c_addr;
     exit when t_customers%notfound;
     dbms output.put line('customer name: ' | | c name | | ', address: ' | |
c_addr);
   end loop;
   close t_customers;
 end;
 /
Customer Name: Jegan, Address: Salem
PL/SQL procedure successfully completed.
```

CONTENTS	MARKS ALLOTED	MARKS OBTAINED
Aim,Algorithm,SQL,PL/SQL	30	
Execution and Result	20	
Viva	10	
Total	60	

RESULT:

Achieved controlled and optimized data processing using cursors, enabling complex operations with improved precision.