Practical-14

Date:_____

AIM: Write Program of explicit and Implicit cursor.

- For these program, we will be using the Customers table for both the programs :

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	Kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00
6	Komal	22	MP	4500.00

i). Explicit Cursor :-

- Explicit cursor are programmer-defined cursors for gaining more control over the context area. An explicit cursor should be defined in the declaration section of the PL/SQL block. It is created on a SELECT Statement which returns more than one row.

Input :-

```
DECLARE
    c_id customers.id % type;
    c_name customers.name % type;
    c_addr customers.address % type;
    CURSOR c_customers is
        SELECT id, name, address FROM customers;
BEGIN
    OPEN c_customers;
    LOOP
    FETCH c_customers into c_id, c_name, c_addr;
        EXIT WHEN c_customers % notfound;
        dbms_output.put_line (c_id ||' '|| c_name ||' '|| c_addr);
    END LOOP;
    CLOSE c_customers;  END;
```

Output :-

1	Ramesh	Ahmedabad
2	Khilan	Delhi
3	Kaushik	Kota
4	Chaitali	Mumbai
5	Hardik	Bhopal
6	Komal	mp

ii). Implicit Cursor :-

- Implicit cursor 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.

- It has attributes such as %. FOUND, %. ISOPEN, %. NOTFOUND, %. ROWCOUNT.

Input :-

```
DECLARE
     total_rows number(2);
BEGIN
     UPDATE Customers
     SET salary = salary + 500;
     IF sql %. notfound THEN
        dbms_output. put_line ('No customers selected');
     ELSIF sql %. found THEN
        total_rows := sql %. rowcount;
        dbms_output. put_line ( total_rows || 'customers
                                         selected');
     END IF;
END;
```

Output :-

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2500.00
2	Khilan	25	Delhi	2000.00
3	Kaushik	23	Kota	2500.00
4	Chaitali	25	Mumbai	7000.00
5	Hardik	27	Bhopal	9000.00
6	Komal	22	MP	5000.00