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**Roll No. 13136**

**Practical No. 7 Cursor / PlSql**

**Parameterized Cursor**

**CURSOR\_PRAC.sql**

declare

cursor cu1 is select cusID,Name from Data1;

cursor cu2 is select cusID from Data2;

cusno int;

nm varchar(20);

cusno2 int;

begin

open cu1;

open cu2;

loop

fetch cu1 into cusno,nm;

fetch cu2 into cusno2;

exit

when cu1%found = false;

if cusno <> cusno2 then

insert into Data1 values(cusno,nm);

end if;

end loop;

close cu1;

close cu2;

end;

/

**Output:**

SQL> DESC DATA1;

Name Null? Type

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

CUSID NUMBER(38)

NAME VARCHAR2(20)

SQL> DESC DATA2;

Name Null? Type

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

CUSID NUMBER(38)

NAME VARCHAR2(20)

SQL> INSERT INTO DATA1(CUSID, NAME) VALUES (101, 'Rohan');

1 row created.

SQL> INSERT INTO DATA1(CUSID, NAME) VALUES (102, 'Anurag');

1 row created.

SQL> INSERT INTO DATA1(CUSID, NAME) VALUES (103, 'Pranav');

1 row created.

SQL> INSERT INTO DATA1(CUSID, NAME) VALUES (104, 'Ishwar');

1 row created.

SQL> INSERT INTO DATA2(CUSID, NAME) VALUES (101, 'Rohan');

1 row created.

SQL> INSERT INTO DATA2(CUSID, NAME) VALUES (102, 'Anurag');

1 row created.

SQL> INSERT INTO DATA2(CUSID, NAME) VALUES (102, 'Anurag');

1 row created.

SQL> INSERT INTO DATA3(CUSID, NAME) VALUES (103, 'Pranav');

INSERT INTO DATA3(CUSID, NAME) VALUES (103, 'Pranav')

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> INSERT INTO DATA2(CUSID, NAME) VALUES (103, 'Pranav');

1 row created.

SQL> select \* from DATA1;

CUSID NAME

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

101 Rohan

102 Anurag

103 Pranav

104 Ishwar

SQL> select \* from DATA2;

CUSID NAME

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

101 Rohan

102 Anurag

102 Anurag

103 Pranav

SQL> set serveroutput on;

SQL> @ CURSOR\_PRAC.SQL;

PL/SQL procedure successfully completed.

SQL> select \* from DATA2;

CUSID NAME

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

101 Rohan

102 Anurag

103 Pranav

**Implicit Cursor**

**ImplicitCursor.sql**

DECLARE

total\_rows number(2);

BEGIN

UPDATE Employee

SET empsalary = empsalary + 5000;

IF sql%notfound THEN

dbms\_output.put\_line('no employees updated');

ELSIF sql%found THEN

total\_rows := sql%rowcount;

dbms\_output.put\_line( total\_rows || ' employee updated ');

END IF;

END;

/

SQL\*Plus: Release 21.0.0.0.0 - Production on Tue Oct 10 01:07:43 2023

Version 21.3.0.0.0

Copyright (c) 1982, 2021, Oracle. All rights reserved.

Enter user-name: SYSTEM

Enter password:

Last Successful login time: Tue Oct 10 2023 01:05:23 -07:00

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> Create Table EMLOYE(empid int, empname varchar(20), empsalary int);

Table created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (101, 'Rohan',90000);

1 row created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (101, 'Anurag',80000);

1 row created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (101, 'Pranav',69000);

1 row created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (103, 'Sarthak',58000);

1 row created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (104, 'Hrishikesh',80000);

1 row created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (105, 'Ishvar',80000);

1 row created.

SQL> INSERT INTO EMLOYE(empid, empname, empsalary) values (106, 'Abhishek',80000);

1 row created.

SQL> UPDATE EMLOYE SET empid = 102 where empname = 'Anurag';

1 row updated.

SQL> drop table Employee;

Table dropped.

SQL> ALTER table EMLOYE RENAME to Employee;

Table altered.

SQL> SELECT \* FROM Employee;

EMPID EMPNAME EMPSALARY

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

101 Rohan 90000

102 Anurag 80000

101 Pranav 69000

103 Sarthak 58000

104 Hrishikesh 80000

105 Ishvar 80000

106 Abhishek 80000

7 rows selected.

SQL> DELETE FROM Employee WHERE EMPNAME = 'Pranav';

1 row deleted.

SQL> SELECT \* FROM Employee;

EMPID EMPNAME EMPSALARY

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

101 Rohan 90000

102 Anurag 80000

103 Sarthak 58000

104 Hrishikesh 80000

105 Ishvar 80000

106 Abhishek 80000

6 rows selected.

SQL> SET SERVEROUTPUT ON;

SQL> @ ImplicitCursor.sql

6 employee updated

PL/SQL procedure successfully completed.

SQL> SELECT \* FROM Employee;

EMPID EMPNAME EMPSALARY

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

101 Rohan 95000

102 Anurag 85000

103 Sarthak 63000

104 Hrishikesh 85000

105 Ishvar 85000

106 Abhishek 85000

6 rows selected.

SQL>

**Cur.sql**

DECLARE

CURSOR c\_student

IS

SELECT \* FROM studentt;

BEGIN

FOR studentt IN c\_student

LOOP

dbms\_output.put\_line(studentt.name || ': $' || studentt.marks );

END LOOP;

END;

/

**Output:**

SQL\*Plus: Release 21.0.0.0.0 - Production on Tue Oct 10 01:51:13 2023

Version 21.3.0.0.0

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Enter user-name: SYSTEM

Enter password:

Last Successful login time: Tue Oct 10 2023 01:07:47 -07:00

Connected to:

Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production

Version 21.3.0.0.0

SQL> CREATE TABLE Student(name varchar(20), marks float);

CREATE TABLE Student(name varchar(20), marks float)

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

SQL> CREATE TABLE Studentt(name varchar(20), marks float);

Table created.

SQL> INSERT INTO Studentt(name, marks) VALUES ('Rohan', 6.34);

1 row created.

SQL> INSERT INTO Studentt(name, marks) VALUES ('Anand', 7.0);

1 row created.

SQL> INSERT INTO Studentt(name, marks) VALUES ('Anurag', 7.5);

1 row created.

SQL> INSERT INTO Studentt(name, marks) VALUES ('Pranav', 7.5);

1 row created.

SQL> INSERT INTO Studentt(name, marks) VALUES ('Ishvar', 9.5);

1 row created.

SQL> INSERT INTO Studentt(name, marks) VALUES ('Suresh', 5.5);

1 row created.

SQL> SET SERVEROUTPUT ON;

SQL> @ Curs.sql;

Rohan: $6.34

Anand: $7

Anurag: $7.5

Pranav: $7.5

Ishvar: $9.5

Suresh: $5.5

PL/SQL procedure successfully completed.

SQL>