Database Management Systems Laboratory Assignment A6

Date of Submission: 15-09-2020

Title: CURSORS

Roll number: 31301

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Class: TE-3

Batch: K-3

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TITLE	Assignment 6
IIILE	CURSORS
DATE	
PROBLEM	Corte a Divi
STATEMENT	Parameterized cursor that will
	mercie the di
	newly created table N-Fratal
	coith the data available in the
	in the first table already exists in the Second table then data
and the second	should be stipped
LEARNING .	
OBJECTIVES .	To understand thou to use cursos with
	PL\SQL block
LEARNING	Students will be able to:
-OUTCOMES	Implement diff types of arsas
	SQL puckage, 64-bit Linux Fedora,
REQUIREMENTS	Maritor, Key board, Maise
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THEORY PL/SQL Stands for Procedural Language / Structured Query orquage PL/SOL Offers a set of procedural Commonds, organized with blocks that complement & extend the reach of SQL · Blocks in PLISQL: It is a block-structured longrage. A PLISQL block is defined by the Reywood DECLARE, BEGIN, EXCEPTION Ord END, which break up the block in 3 sections-4. Declarative 4> Executable 4s Exception Honding Eg BEGIN dbmsp. pw-la ("Hello Wot END;

CURSORS · A cursor is a temporary work area created in the system memory when a SQL statement is executed. A cursor contains information on a select statement and the rows of data accessed There are 2 types of arson a) Implicit cursos-These are gated by default when DML statements like INSERT, LIPDATE and DELETE statements ore executed. Also created when a SELECT statement that returns just one row is executed b) Explicit cursos They must be created when you are executing a SELECT statement of that returns more than one row.

DECLARE varrows number (5). BEGIN UPDATE employee Set salary = salary + 1000 IF SQL % NOTFOUND THEN domop. put line ('None salay upte ELSIF SOL% FOUND THEN VOILTONS: SQL % ROWCOUNT. dbms op put line ('Salones fa'll varas 'employees are updated') END IF . END; We have successfully studied and implemented the Concept of cursors in Pulsar and applied it in real world applications.

CODE AND OUTPUTS

```
SQL> create table O_EmpId( id INTEGER not null, name varchar(25) not null);

Table created.

SQL> create table N_EmpId( id INTEGER not null, name varchar(25) not null);

Table created.
```

```
SQL> select * from O_EmpId;

ID NAME

1 Aboli
2 Sarah
3 Bulu
4 Lily

SQL> insert into N_EmpId(id, name) values (1,'Aboli');

1 row created.

SQL> insert into N_EmpId(id, name) values (3,'Bulu');

1 row created.

SQL> select * from N_EmpId;

ID NAME

1 Aboli
3 Bulu
```

```
SQL> declare
 2 newcid int;
 3 newname varchar(25);
 4 oldcid int;
 5 oldname varchar(25);
 6 cursor newcursor(n int) is select * from N_EmpId where id=n;
 7 cursor oldcursor is select * from O_EmpId;
 8 begin
 9 open oldcursor;
 10 loop
 11 fetch oldcursor into newcid, newname;
 12 exit when oldcursor%notfound;
 13 open newcursor(newcid);
 14 fetch newcursor into oldcid, oldname;
 15 if newcursor%notfound then
16 insert into N_EmpId values(newcid, newname);
17 end if;
18 close newcursor;
 19 end loop;
 20 close oldcursor;
 21 end;
 22 /
PL/SQL procedure successfully completed.
Alternate Code using MySQL procedures.
create procedure cur_merge()
begin
declare oldemp_id int;
declare oldemp_name varchar(15);
declare newemp_id int;
declare newemp_name varchar(15);
declare common int;
declare finished integer default 0;
declare oldcursor cursor for select * from old_emp;
declare newcursor cursor for select * from new_emp where id = common;
declare continue handler for not found set finished =1;
```

```
open oldcursor;
for_loop : loop
set finished=0;
fetch oldcursor into oldemp_id , oldemp_name;
set common = oldemp_id;
if finished = 1 then
leave for_loop;
end if;
open newcursor;
fetch newcursor into newemp_id , newemp_name;
if finished = 1 then
insert into new_emp values (oldemp_id, oldemp_name);
end if;
close newcursor;
end loop for_loop;
close oldcursor;
end;
```

```
SQL> select * from O_EmpId;

ID NAME

1 Aboli
2 Sarah
3 Bulu
4 Lily

SQL> select * from N_EmpId;

ID NAME

1 Aboli
3 Bulu
2 Sarah
4 Lily
```