NAME: Aditi Laxman Bairagi

ROLL NO: 153

Div: A

Batch : AS4

ASSIGNMENT NO-4

TITLE: Cursors: (All types: Implicit, Explicit, Cursor FOR Loop, Parameterized Cursor) Write a PL/SQL block of code using parameterized Cursor, that will merge the data available in the newly created table N_RollCall with the data available in the table O_RollCall. If the data in the first table already exist in the second table then that data should be skipped. Frame the separate problem statement for writing PL/SQL block to implement all types of Cursors inline with above statement. The problem statement should clearly state the requirements.

```
mysql> use Aditi;

Reading table information for completion of table and column
names

You can turn off this feature to get a quicker startup with -A


Database changed
mysql> create table o_rollcall(roll_no int,name
varchar(20),address varchar(20));

Query OK, 0 rows affected (0.28 sec)


mysql> create table n_rollcall(roll_no int,name
varchar(20),address varchar(20));

Query OK, 0 rows affected (0.27 sec)


mysql> insert into o_rollcall('1','Hitesh','Nandura');

ERROR 1064 (42000): You have an error in your SQL syntax;
check the manual that corresponds to your MySQL server version
for the right syntax to use near ''1','Hitesh','Nandura')' at
line 1

mysql> insert into o_rollcall values('1','Hitesh','Nandura');

Query OK, 1 row affected (0.05 sec)
```

```
mysql> insert into o_rollcall values('2','Piyush','MP');
Query OK, 1 row affected (0.06 sec)

mysql> insert into o_rollcall values('3','Ashley','Nsk');
Query OK, 1 row affected (0.05 sec)

mysql> insert into o_rollcall values('4','Kalpesh','Dhule');
Query OK, 1 row affected (0.05 sec)

mysql> insert into o_rollcall values('5','Abhi','Satara');
Query OK, 1 row affected (0.04 sec)
mysql> delimiter //
mysql> create procedure p3(in r1 int)
    -> begin
    -> declare r2 int;
    -> declare exit_loop boolean;
    -> declare c1 cursor for select roll_no from o_rollcall
where roll_no>r1;
    -> declare continue handler for not found set
exit_loop=true;
    -> open c1;
    -> e_loop:loop
    -> fetch c1 into r2;
    -> if not exists(select * from n_rollcall where
roll_no=r2)
    -> then
    -> insert into n_rollcall select * from o_rollcall where
roll_no=r2;
    -> end if;
    -> if exit_loop
    -> then
    -> close c1;
    -> leave e_loop;
    -> end if;
    -> end loop e_loop;
```

```
        -> end
        -> //
Query OK, 0 rows affected (0.00 sec)


mysql> call p3(3);
    -> //
Query OK, 0 rows affected (0.10 sec)


mysql> select * from n_rollcall;
        -> //
+---------+---------+---------+
| roll_no | name    | address |
+---------+---------+---------+
|       4 | Kalpesh | Dhule   |
|       5 | Abhi    | Satara  |
+---------+---------+---------+
2 rows in set (0.00 sec)


mysql> call p3(0);
        -> //
Query OK, 0 rows affected (0.22 sec)


mysql> select * from n_rollcall;
        -> //
+---------+---------+---------+
| roll_no | name    | address |
+---------+---------+---------+
|       4 | Kalpesh | Dhule   |
|       5 | Abhi    | Satara  |
|       1 | Hitesh  | Nandura |
|       2 | Piyush  | MP      |
|       3 | Ashley  | Nsk     |
```

```
+---------+---------+---------+
5 rows in set (0.00 sec)


mysql> insert into o_rollcall values('6','Patil','Kolhapur');
    -> //
Query OK, 1 row affected (0.04 sec)


mysql> call p3(4);
    -> //
Query OK, 0 rows affected (0.05 sec)


mysql> select * from n_rollcall;
    -> //
+---------+---------+----------+
| roll_no | name    | address  |
+---------+---------+----------+
|       4 | Kalpesh | Dhule    |
|       5 | Abhi    | Satara   |
|       1 | Hitesh  | Nandura  |
|       2 | Piyush  | MP       |
|       3 | Ashley  | Nsk      |
|       6 | Patil   | Kolhapur |
+---------+---------+----------+
6 rows in set (0.00 sec)
```