-- **Assignment No 4** ---

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Problem Statement : 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.

- **Use Database name as ass3**

mysql> use ass4;

Database changed

- **Create table o_rollcall**

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

Query OK, 0 rows affected (0.18 sec)

- **Create table n_rollcall**

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

Query OK, 0 rows affected (0.27 sec)

- **Insert into table**

mysql> insert into o_rollcall values('1','Ishwari',kp');

Query OK, 1 row affected (0.05 sec)

mysql> insert into o_rollcall values('2','Aditya','banglore');

Query OK, 1 row affected (0.06 sec)

mysql> insert into o_rollcall values('3','Prachi','Nashik');

Query OK, 1 row affected (0.05 sec)

mysql> insert into o_rollcall values('4','Sakshi','Hyderabad');

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)

- **Create Procedure**

```
delimiter //
 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)

- **Call procedure (here for procedure not create sql file . Directly run from terminl)**

mysql> call p3(3);

-> //

Query OK, 0 rows affected (0.10 sec)

mysql> select * from n_rollcall;

-> //

```
+---------+---------+---------+
| roll_no | name | address |
+---------+---------+---------+
| 4 | Sakshi | Hyderabad |
| 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 | Sakshi | Hyderabad |
| 5 | Abhi | Satara |
| 1 | Ishwari | kp |
| 2 | Aditya | Banglore |
| 3 | Prachi | Nashik |
+---------+---------+---------+
5 rows in set (0.00 sec)
```