**Assignment No 6.**

**Name:** Bhujbal Shubham Shantaram

**Roll No:** 62

**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.

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mysql> show databases;

+--------------------+

| Database |

+--------------------+

| anuj |

| employee |

| information\_schema |

| mysql |

| performance\_schema |

| practical4 |

| sai |

| sys |

+--------------------+

8 rows in set (0.01 sec)

mysql> use anuj;

Database changed

mysql> show tables;

+----------------+

| Tables\_in\_anuj |

+----------------+

| borrower |

| fine |

+----------------+

2 rows in set (0.01 sec)

mysql> create table Orollcall(Rollno int(10),Name varchar(12),Address varchar(13));

Query OK, 0 rows affected, 1 warning (0.04 sec)

mysql> create table Nrollcall(Rollno int(15),Name varchar(16),Address varchar(20));

Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> desc Orollcall;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| Rollno | int | YES | | NULL | |

| Name | varchar(12) | YES | | NULL | |

| Address | varchar(13) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.01 sec)

mysql> desc Nrollcall;

+---------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------+-------------+------+-----+---------+-------+

| Rollno | int | YES | | NULL | |

| Name | varchar(16) | YES | | NULL | |

| Address | varchar(20) | YES | | NULL | |

+---------+-------------+------+-----+---------+-------+

3 rows in set (0.00 sec)

mysql> insert into Orollcall values('1','Sai','Ozar');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Orollcall values('2','Rupesh','Junner');

Query OK, 1 row affected (0.00 sec)

mysql> insert into Orollcall values('3','Aniket','Alephata');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Orollcall values('4','Akshay','Mancher');

Query OK, 1 row affected (0.00 sec)

mysql> insert into Orollcall values('5','Abhi','Belhe');

Query OK, 1 row affected (0.00 sec)

mysql> select \* from Orollcall;

+--------+--------+----------+

| Rollno | Name | Address |

+--------+--------+----------+

| 1 | Sai | Ozar |

| 2 | Rupesh | Junner |

| 3 | Aniket | Alephata |

| 4 | Akshay | Mancher |

| 5 | Abhi | Belhe |

+--------+--------+----------+

5 rows in set (0.00 sec)

mysql> insert into Nrollcall values('1','Sai','Ozar');

Query OK, 1 row affected (0.01 sec)

mysql> insert into Nrollcall values('2','Rupesh','Junner');

Query OK, 1 row affected (0.00 sec)

mysql> insert into Nrollcall values('3','Aniket','Alephata');

Query OK, 1 row affected (0.01 sec)

mysql> select \* from Nrollcall;

+--------+--------+----------+

| Rollno | Name | Address |

+--------+--------+----------+

| 1 | Sai | Ozar |

| 2 | Rupesh | Junner |

| 3 | Aniket | Alephata |

+--------+--------+----------+

3 rows in set (0.00 sec)

mysql> delimiter //

mysql> create procedure n1(IN rno1 int)

-> begin

-> declare rno2 int;

-> declare exit\_loop boolean;

-> declare c1 cursor for select Rollno from Orollcall where Rollno>rno1;

-> declare continue handler for not found set exit\_loop=TRUE;

-> open c1;

-> e\_loop:loop

-> fetch c1 into rno2;

-> if not exists(select \* from Nrollcall where Rollno=rno2)

-> then

-> insert into Nrollcall select \* from Orollcall where Rollno=rno2;

-> end if;

-> if exit\_loop

-> then

-> close c1;

-> leave e\_loop;

-> end if;

-> end loop e\_loop;

-> end

-> //

Query OK, 0 rows affected (0.01 sec)

mysql> call n1(3);

-> //

Query OK, 0 rows affected (0.02 sec)

mysql> select \* from Nrollcall;

-> //

+--------+--------+----------+

| Rollno | Name | Address |

+--------+--------+----------+

| 1 | Sai | Ozar |

| 2 | Rupesh | Junner |

| 3 | Aniket | Alephata |

| 4 | Akshay | Mancher |

| 5 | Abhi | Belhe |

+--------+--------+----------+

5 rows in set (0.00 sec)

mysql> call n1(0);

-> //

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from Nrollcall;

-> //

+--------+--------+----------+

| Rollno | Name | Address |

+--------+--------+----------+

| 1 | Sai | Ozar |

| 2 | Rupesh | Junner |

| 3 | Aniket | Alephata |

| 4 | Akshay | Mancher |

| 5 | Abhi | Belhe |

+--------+--------+----------+

5 rows in set (0.00 sec)

mysql> insert into Orollcall values('6','Sunny','Pune');

-> //

Query OK, 1 row affected (0.00 sec)

mysql> call n1(4);

-> //

Query OK, 0 rows affected (0.00 sec)

mysql> select \* from Nrollcall;

-> //

+--------+--------+----------+

| Rollno | Name | Address |

+--------+--------+----------+

| 1 | Sai | Ozar |

| 2 | Rupesh | Junner |

| 3 | Aniket | Alephata |

| 4 | Akshay | Mancher |

| 5 | Abhi | Belhe |

| 6 | Sunny | Pune |

+--------+--------+----------+

6 rows in set (0.00 sec)