**Practical code 6**

**Problem Statement**: Write a PL/SQL block of code using parameterized Cursor that will merge the data availablein 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.

mysql> use amit;

Database changed

mysql> create table o\_student(roll\_no int primary key not null,name varchar(50),address varchar(20));

Query OK, 0 rows affected (0.07 sec)

mysql> create table n\_student(roll\_no int primary key not null,name varchar(50),address varchar(20));

Query OK, 0 rows affected (0.02 sec)

mysql> insert into o\_student values('1','Amit','Nashik'),(2,'Atharv','Pune'),(3,'Riya','Nagpur'),(4,'Nisarg','Nashik'),(5,'Charu','Mumbai');

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select\*from o\_student;

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

| 4 | Nisarg | Nashik |

| 5 | Charu | Mumbai |

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

5 rows in set

**#creating cursor**

mysql> delimiter //

mysql> CREATE PROCEDURE cur2(IN roll\_no1 INT)

-> BEGIN

-> DECLARE r1 INT;

-> DECLARE name1 VARCHAR(20);

-> DECLARE address1 VARCHAR(20);

-> DECLARE exit\_loop BOOLEAN DEFAULT FALSE;

-> DECLARE c1 CURSOR FOR SELECT roll\_no, name, address FROM o\_student WHERE roll\_no = roll\_no1;

-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET exit\_loop = TRUE;

-> SELECT \* FROM n\_student;

-> OPEN c1;

-> e1: LOOP

-> FETCH c1 INTO r1, name1, address1;

-> IF exit\_loop THEN

-> CLOSE c1;

-> LEAVE e1;

-> END IF;

-> IF NOT EXISTS (SELECT \* FROM n\_student WHERE roll\_no= r1) THEN

-> INSERT INTO n\_student (roll\_no, name, address) VALUES (r1, name1, address1);

-> END IF;

-> END LOOP e1;

-> SELECT \* FROM n\_student;

-> END //

Query OK, 0 rows affected (0.01 sec)

# **cursor call for 1st tuple**

mysql> call cur2(1)//

Empty set (0.01 sec)

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

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

1 row in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

# **cursor call for 3rd tuple**

mysql> call cur2(3)//

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

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

1 row in set (0.00 sec)

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 3 | Riya | Nagpur |

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

2 rows in set (0.01 sec)

Query OK, 0 rows affected (0.02 sec)

# **cursor call for 1st & 3rd tuple**

mysql> call cur2(1)//

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 3 | Riya | Nagpur |

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

2 rows in set (0.00 sec)

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 3 | Riya | Nagpur |

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

2 rows in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

# **cursor call for 2nd tuple**

mysql> call cur2(2)//

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 3 | Riya | Nagpur |

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

2 rows in set (0.00 sec)

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

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

3 rows in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

# **cursor call for 4th tuple**

mysql> call cur2(4)//

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

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

3 rows in set (0.00 sec)

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

| 4 | Nisarg | Nashik |

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

4 rows in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

# **cursor call for 5th tuple**

mysql> call cur2(5)//

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

| 4 | Nisarg | Nashik |

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

4 rows in set (0.00 sec)

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

| 4 | Nisarg | Nashik |

| 5 | Charu | Mumbai |

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

5 rows in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

**#complete table**

mysql> select\*from n\_student;

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

| roll\_no | name | address |

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

| 1 | Amit | Nashik |

| 2 | Atharv | Pune |

| 3 | Riya | Nagpur |

| 4 | Nisarg | Nashik |

| 5 | Charu | Mumbai |

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

5 rows in set (0.00 sec)