

Rollno : 31413

### Assignment 6

**Aim : 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\_EmpId with the data available in the table O\_EmpId. If the data in the first table already exist in the second table then that data should be skipped.**

```
mysql> create table OldTable (O_e_id int primary key,e_name varchar(20));
Query OK, 0 rows affected (0.25 sec)
```

```
mysql> create table NewTable (n_e_id int primary key,e_name varchar(20));
Query OK, 0 rows affected (7.34 sec)
```

```
INSERT INTO OldTable (O_e_id, e_name) VALUES
(1, 'Siddhi'),
(2, 'Anushree'),
(3, 'Shreeja'),
(4, 'Dhanashree'),
(5, 'Shreya');
```

```
INSERT INTO NewTable (n_e_id, e_name) VALUES
(1, 'Siddhi'),
(5, 'Shreya');
```

```
mysql> select * from OldTable;
+-----+-----+
| O_e_id | e_name |
+-----+-----+
|      1 | Siddhi |
|      2 | Anushree |
|      3 | Shreeja |
|      4 | Dhanashree |
|      5 | Shreya |
+-----+-----+
5 rows in set (0.01 sec)

mysql> select * from Newtable;
ERROR 1146 (42S02): Table 'te31413_db.Newtable' doesn't exist
mysql> select * from NewTable;
+-----+-----+
| n_e_id | e_name |
+-----+-----+
|      1 | Siddhi |
|      5 | Shreya |
+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

Procedure :

DELIMITER //

CREATE PROCEDURE cursordemo()

BEGIN

DECLARE done INT DEFAULT FALSE;

DECLARE e\_id INT;

DECLARE name VARCHAR(20);

-- Declare a cursor for selecting data from OldTable

DECLARE c1 CURSOR FOR

SELECT O\_e\_id, e\_name FROM OldTable ;

-- Declare a handler for the NOT FOUND condition

DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

-- Open the cursor

OPEN c1;

-- Start the loop to fetch and process each row

read\_loop: LOOP

FETCH c1 INTO e\_id, name;

-- Exit the loop if no more rows are found

IF done THEN

LEAVE read\_loop;

END IF;

-- Insert into NewTable, ignoring duplicates

INSERT IGNORE INTO NewTable (n\_e\_id, e\_name) VALUES (e\_id, name);

END LOOP read\_loop;

-- Close the cursor

CLOSE c1;

END //

DELIMITER ;

```
mysql> call cursordemo();  
Query OK, 3 rows affected (0.10 sec)
```

```
mysql> select * from NewTable;
```

n_e_id	e_name
1	Siddhi
2	Anushree
3	Shreeja
4	Dhanashree
5	Shreya

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

```
mysql> 
```