

Practical no. 5

Write a PL/SQL block of code using parameterized Cursor that will merge the data available in the newly created table N_Roll_Call with the data available in the table O_Roll_Call. If the data in the first table already exists in the second table then that data should be skipped.

```
CREATE TABLE O_Rollcall
-> (
-> roll_no INT,
-> name VARCHAR(20),
-> address VARCHAR(20)
-> );
Query OK, 0 rows affected (0.03 sec)
```

```
INSERT INTO O_Rollcall (roll_no, name, address) VALUES
-> (1, 'Advik', 'Hyderabad'),
-> (2, 'Ishani', 'Kolkata'),
-> (3, 'Reyansh', 'Ahmedabad'),
-> (4, 'Siya', 'Jaipur'),
-> (5, 'Aarav', 'Lucknow');
```

```
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
SELECT * FROM o_Rollcall;
+-----+-----+-----+
| roll_no | name      | address    |
+-----+-----+-----+
|      1 | Advik     | Hyderabad |
|      2 | Ishani    | Kolkata   |
|      3 | Reyansh   | Ahmedabad |
|      4 | Siya      | Jaipur   |
|      5 | Aarav     | Lucknow  |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
CREATE TABLE N_Rollcall
-> (
-> roll_no INT PRIMARY KEY,
-> name VARCHAR(20),
-> address VARCHAR(20)
-> );
Query OK, 0 rows affected (0.03 sec)
```

```
SELECT * FROM N_Rollcall;
Empty set (0.00 sec)
```

Procedure Program:-

DELIMITER //

```
CREATE PROCEDURE p1(IN r1 INT)
BEGIN
    DECLARE r2 INT;
    DECLARE exit_loop BOOLEAN DEFAULT FALSE;

    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;
//  

DELIMITER ;  

Query OK, 0 rows affected (0.03 sec)

CALL P1(2);
Query OK, 0 rows affected (0.03 sec)

SELECT * FROM N_Rollcall;
+-----+-----+-----+
| roll_no | name      | address     |
+-----+-----+-----+
|       3 | Reyansh   | Ahmedabad  |
|       4 | Siya      | Jaipur     |
|       5 | Aarav     | Lucknow    |
+-----+-----+-----+
3 rows in set (0.00 sec)
```