**SOFTWARE LABORATORY 1**

**GROUP A – EXPERIMENT 6**

**TITLE:**

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.

Note: Instructor will frame the problem statement for writing PL/SQL block using all types of Cursors in line with above statement.

**CODE:**

mysql> CREATE DATABASE RollCallDB;

Query OK, 1 row affected (0.01 sec)

mysql> USE RollCallDB;

Database changed

mysql> CREATE TABLE O\_Roll\_Call (Roll\_No INT PRIMARY KEY, Student\_Name VARCHAR(100));

Query OK, 0 rows affected (0.05 sec)

mysql> CREATE TABLE N\_Roll\_Call (Roll\_No INT PRIMARY KEY, Student\_Name VARCHAR(100));

Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO N\_Roll\_Call (Roll\_No, Student\_Name) VALUES (1, 'Alice'),(2, 'Bob'),(3, 'Charlie');

Query OK, 3 rows affected (0.02 sec) Records: 3 Duplicates: 0 Warnings: 0

mysql> INSERT INTO O\_Roll\_Call (Roll\_No, Student\_Name) VALUES (2, 'Bob'), (4, 'David');

Query OK, 2 rows affected (0.01 sec) Records: 2 Duplicates: 0 Warnings: 0

mysql> DELIMITER $$

mysql> CREATE PROCEDURE merge\_roll\_call()

-> BEGIN

-> DECLARE done INT DEFAULT 0;

-> DECLARE v\_roll\_no INT;

-> DECLARE v\_student\_name VARCHAR(100);

-> DECLARE cur1 CURSOR FOR

-> SELECT Roll\_No, Student\_Name FROM N\_Roll\_Call;

-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;

-> OPEN cur1;

-> read\_loop: LOOP

-> FETCH cur1 INTO v\_roll\_no, v\_student\_name;

-> IF done THEN

-> LEAVE read\_loop;

-> END IF;

-> IF NOT EXISTS (SELECT 1 FROM O\_Roll\_Call WHERE Roll\_No = v\_roll\_no) THEN

-> INSERT INTO O\_Roll\_Call (Roll\_No, Student\_Name)

-> VALUES (v\_roll\_no, v\_student\_name);

-> END IF;

-> END LOOP;

-> CLOSE cur1;

-> END$$

Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;

mysql> CALL merge\_roll\_call();

Query OK, 0 rows affected (0.02 sec)

mysql> SELECT \* FROM O\_Roll\_Call;

|  |  |
| --- | --- |
| Roll\_No | Student\_Name |
| 1 | Alice |
| 2 | Bob |
| 3 | Charlie |
| 4 | David |

4 rows in set (0.00 sec)