```
pratical 6
Cursors: (All types: Implicit, Explicit, Cursor FOR Loop, Parameterized
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.
Note: Instructor will frame the problem statement for writing PL/SQL block
using all types of
Cursors in line with above statement.
-- Create the N RollCall table (new data)
CREATE TABLE N RollCall (
Roll INT PRIMARY KEY,
Name VARCHAR(50)
);
-- Create the O RollCall table (old data)
CREATE TABLE O_RollCall (
Roll INT PRIMARY KEY,
Name VARCHAR(50)
);
-- Insert data into N RollCall (new records)
INSERT INTO N RollCall (Roll, Name) VALUES (1, 'Alice'), (2, 'Bob'), (3,
'Charlie');
-- Insert data into O RollCall (existing records)
INSERT INTO O RollCall (Roll, Name) VALUES (2, 'Bob'), (4, 'David');
DELIMITER $$
CREATE PROCEDURE merge RollCall()
BEGIN
DECLARE v Roll INT;
DECLARE v Name VARCHAR(50);
DECLARE done INT DEFAULT 0;
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-- Declare a cursor to iterate through N_RollCall
DECLARE cur CURSOR FOR
SELECT Roll, Name FROM N RollCall;
-- Declare a handler for when the cursor reaches the end
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = 1;
-- Open the cursor
OPEN cur;
-- Loop through each row in N RollCall
read loop: LOOP
-- Fetch the current row from the cursor
FETCH cur INTO v Roll, v Name;
-- Exit the loop if the cursor is done
IF done THEN
LEAVE read_loop;
END IF;
-- Check if the record already exists in O RollCall
IF NOT EXISTS (SELECT 1 FROM O_RollCall WHERE Roll = v_Roll) THEN
-- If the record doesn't exist, insert it into O RollCall
INSERT INTO O RollCall (Roll, Name) VALUES (v Roll, v Name);
END IF;
END LOOP;
-- Close the cursor
CLOSE cur;
END$$
DELIMITER;
-- Call the procedure to merge the data
CALL merge RollCall();
-- Verify the merged data in O RollCall
SELECT * FROM O RollCall;
```