***#Assignment A6-SQL#***

**Problem Statement:** 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\_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.

Frame the separate problem statement for writing PL/SQL block to implement all types of Cursors inline with above statement. The problem statement should clearly state the requirements.

**Source Code:**

-- Create the new\_class\_1 table

CREATE TABLE new\_class\_1 (

roll NUMBER(10),

name VARCHAR(10)

);

SELECT \* FROM NEW\_CLASS\_1;

DROP TABLE NEW\_CLASS\_1;

INSERT INTO new\_class\_1 (roll, name) VALUES (1, 'Aarav');

INSERT INTO new\_class\_1 (roll, name) VALUES (2, 'Vivaan');

INSERT INTO new\_class\_1 (roll, name) VALUES (3, 'Aditya');

INSERT INTO new\_class\_1 (roll, name) VALUES (4, 'Sai');

INSERT INTO new\_class\_1 (roll, name) VALUES (5, 'Ishaan');

INSERT INTO new\_class\_1 (roll, name) VALUES (6, 'Reyansh');

INSERT INTO new\_class\_1 (roll, name) VALUES (7, 'Anaya');

INSERT INTO new\_class\_1 (roll, name) VALUES (8, 'Kiara');

INSERT INTO new\_class\_1 (roll, name) VALUES (9, 'Tara');

INSERT INTO new\_class\_1 (roll, name) VALUES (10, 'Nisha');

-- Create the old\_class\_1 table

CREATE TABLE old\_class\_1 (

roll NUMBER(10),

name VARCHAR(10)

);

SELECT \* FROM OLD\_ClASS\_1;

DROP TABLE OLD\_CLASS\_1;

DECLARE

CURSOR c\_new\_class IS

SELECT roll, name FROM new\_class\_1;

CURSOR c\_exists(roll\_num NUMBER) IS

SELECT COUNT(\*) FROM old\_class\_1 WHERE roll = roll\_num;

v\_roll NUMBER(10);

v\_name VARCHAR(10);

v\_count NUMBER;

BEGIN

OPEN c\_new\_class;

LOOP

FETCH c\_new\_class INTO v\_roll, v\_name;

EXIT WHEN c\_new\_class%NOTFOUND;

OPEN c\_exists(v\_roll);

FETCH c\_exists INTO v\_count;

IF v\_count = 0 THEN

INSERT INTO old\_class\_1 (roll, name)

VALUES (v\_roll, v\_name);

END IF;

CLOSE c\_exists;

END LOOP;

CLOSE c\_new\_class;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('Data merged successfully!');

EXCEPTION

WHEN OTHERS THEN

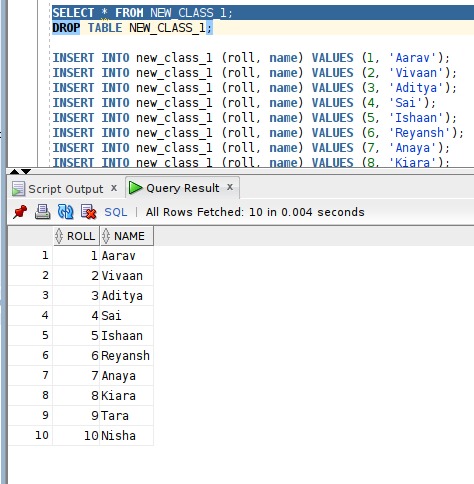
ROLLBACK;

DBMS\_OUTPUT.PUT\_LINE('Error occurred: ' || SQLERRM);

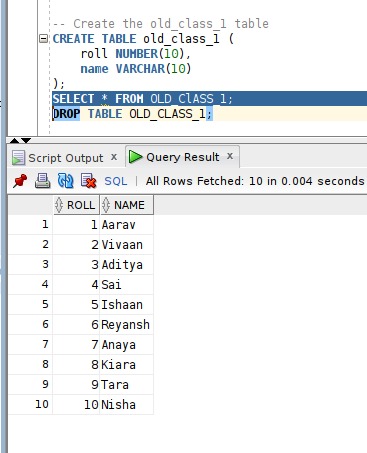
END;

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**Output:**



New Class



After Execution of Cursor