**Name – Shahane Akash Dilip Roll No – C32260 Class – TE Div:2**

**Batch – T8 Subject - DBMS**

**Assignment No – 6**

**Title:** Cursors: (All types: Implicit, Explicit, Cursor FOR Loop, Parameterized Cursor).

**Problem Statement:** Write a PL/SQL block to create a cursor to copy contents of one table into another. Avoid redundancy. 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 exists in the second table then that data should be skipped.

**----------------------------------------------------------------**

SQL> CREATE TABLE O\_RollCall (rn int, name varchar(25), marks int)

Table created.

SQL> DESC O\_RollCall

TABLE O\_ROLLCALL

+--------+-------+-------------+

| Column | Null? | Type |

|--------|-------|-------------|

| RN | - | NUMBER |

| NAME | - | VARCHAR2(25)|

| MARKS | - | NUMBER |

+------------------------------+

SQL> INSERT INTO O\_ROllCall VALUES(1, 'AAA', 38)

1 row(s) inserted.

SQL> INSERT INTO O\_RollCall VALUES(3, 'CCC', 45)

1 row(s) inserted.

SQL> INSERT INTO O\_RollCall VALUES(5, 'EEE', 41)

1 row(s) inserted.

SQL> INSERT INTO O\_RollCall VALUES(7, 'GGG', 36)

1 row(s) inserted.

SQL> SELECT \* FROM O\_RollCall

+----+------+-------+

| RN | NAME | MARKS |

|----|------|-------|

| 3 | CCC | 45 |

| 5 | EEE | 41 |

| 1 | AAA | 38 |

| 7 | GGG | 36 |

+----+------+-------+

4 rows selected.

SQL> CREATE TABLE N\_RollCall(rn int, name varchar(25), marks int)

Table created.

SQL> DESC N\_RollCall

TABLE N\_ROLLCALL

+--------+-------+-------------+

| Column | Null? | Type |

|--------|-------|-------------|

| RN | - | NUMBER |

| NAME | - | VARCHAR2(25)|

| MARKS | - | NUMBER |

+------------------------------+

SQL> INSERT INTO N\_RollCall VALUES(2, 'BBB', 43)

1 row(s) inserted.

SQL> INSERT INTO N\_RollCall VALUES(4, 'DDD', 44)

1 row(s) inserted.

SQL> INSERT INTO N\_RollCall VALUES(6, 'FFF', 41)

1 row(s) inserted.

SQL> INSERT INTO N\_RollCall VALUES(8, 'HHH', 49)

1 row(s) inserted.

SQL> SELECT \* FROM N\_RollCall

+-------------------+

| RN | NAME | MARKS |

|----|------|-------|

| 4 | DDD | 44 |

| 2 | BBB | 43 |

| 8 | HHH | 49 |

| 6 | FFF | 41 |

+-------------------+

4 rows selected.

SQL> BEGIN

UPDATE O\_RollCall SET marks = 40 WHERE (marks BETWEEN 35 AND 39);

IF sql%NOTFOUND THEN

dbms\_output.put\_line('No Record Found');

ELSE

dbms\_output.put\_line(sql%ROWCOUNT || 'Record Found');

END IF;

END;

Statement processed.

2 Record Found

SQL> DECLARE

CURSOR Cur\_O IS SELECT \* FROM O\_RollCall;

CURSOR Cur\_N(rn\_o int) IS SELECT \* FROM N\_RollCall WHERE rn = rn\_o;

s\_rec N\_RollCall%rowtype;

BEGIN

FOR s\_rec in Cur\_O LOOP

OPEN Cur\_N(s\_rec.rn);

FETCH Cur\_N into s\_rec;

IF Cur\_N%NOTFOUND THEN

INSERT INTO N\_RollCall VALUES(s\_rec.rn, s\_rec.name, s\_rec.marks);

END IF;

CLOSE Cur\_N;

END LOOP;

END;

Statement processed.

SQL> SELECT \* FROM N\_RollCall ORDER BY(rn)

+-------------------+

| RN | NAME | MARKS |

|----|------|-------|

| 1 | AAA | 40 |

| 2 | BBB | 43 |

| 3 | CCC | 45 |

| 4 | DDD | 44 |

| 5 | EEE | 41 |

| 6 | FFF | 41 |

| 7 | GGG | 40 |

| 8 | HHH | 49 |

+-------------------+

8 rows selected.