**SEHEJ BAKSHI DBMS Lab 28/08/2020**

**Assignment No. 6**

**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.

1. **Create tables and insert values:**

mysql> create table provisional(rollno int primary key, name varchar(20), status varchar(20));

Query OK, 0 rows affected (1.83 sec)

mysql> create table stud\_data(rollno int primary key, name varchar(20), status varchar(20));

Query OK, 0 rows affected (0.82 sec)

mysql> create table result(rollno int, name varchar(20), status varchar(20));

Query OK, 0 rows affected (0.69 sec)

mysql> insert into provisional values

-> (1, 'amit', 'provisional'),

-> (3, 'sehej', 'provisional'),

-> (4, 'negi', 'provisional'),

-> (5, 'rawat', 'provisional'),

-> (7, 'swapnil', 'provisional');

Query OK, 5 rows affected (0.31 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from provisional;

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| rollno | name | status |

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

| 1 | amit | provisional |

| 3 | sehej | provisional |

| 4 | negi | provisional |

| 5 | rawat | provisional |

| 7 | swapnil | provisional |

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

5 rows in set (0.04 sec)

mysql> insert into stud\_data values

-> (1, 'amit', 'provisional'),

-> (2, 'akash', 'regular'),

-> (3, 'sehej', 'provisional'),

-> (4, 'negi', 'provisional'),

-> (5, 'rawat', 'provisional'),

-> (6, 'zaid', 'regular');

Query OK, 6 rows affected (0.15 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from stud\_data;

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| rollno | name | status |

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

| 1 | amit | provisional |

| 2 | akash | regular |

| 3 | sehej | provisional |

| 4 | negi | provisional |

| 5 | rawat | provisional |

| 6 | zaid | regular |

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6 rows in set (0.00 sec)

1. **Procedure and Cursor – Merge Data:**

mysql> delimiter //

mysql> create procedure uniProc()

-> begin

-> declare sroll int;

-> declare sname varchar(20);

-> declare sstatus varchar(20);

-> declare noMoreRows int;

-> declare unicur cursor for select rollno, name, status from(select \* from stud\_data union select \* from provisional) as t1;

-> declare continue handler for not found set noMoreRows = 1;

-> set noMoreRows = 0;

-> open unicur;

-> fetch\_loop: Loop

-> fetch unicur into sroll, sname, sstatus;

-> if noMoreRows

-> then

-> leave fetch\_loop;

-> end if;

-> insert into result values(sroll, sname, sstatus);

-> end loop fetch\_loop;

-> close unicur;

-> end;

-> //

Query OK, 0 rows affected (0.24 sec)

mysql> delimiter ;

mysql> call uniProc();

Query OK, 0 rows affected (0.81 sec)

mysql> select \* from result;

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| rollno | name | status |

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

| 1 | amit | provisional |

| 2 | akash | regular |

| 3 | sehej | provisional |

| 4 | negi | provisional |

| 5 | rawat | provisional |

| 6 | zaid | regular |

| 7 | swapnil | provisional |

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