28/08/2020  **ASSIGNMENT 6** Sanjay Rawat(7341)

**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.

mysql> create table oldtable(

-> id int,

-> name varchar(20),

-> gender char(1),

-> age int

-> );

Query OK, 0 rows affected (1.57 sec)

mysql> create table newtable(

-> id int,

-> name varchar(20),

-> gender char(1),

-> age int

-> );

Query OK, 0 rows affected (0.64 sec)

mysql> insert into oldtable values

-> (1,'Sanjay','M',20),

-> (2,'Anish','M',17),

-> (3,'Anjali','F',15)

-> ;

Query OK, 3 rows affected (0.19 sec)

Records: 3 Duplicates: 0 Warnings: 0

mysql> select \*from oldtable;

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

| id | name | gender | age |

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

| 1 | Sanjay | M | 20 |

| 2 | Anish | M | 17 |

| 3 | Anjali | F | 15 |

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

3 rows in set (0.00 sec)

mysql> insert into newtable values

-> (4,'Atul','M',0)

-> ;

Query OK, 1 row affected (0.16 sec)

mysql> create procedure merge()

-> begin

-> declare sid int;

-> declare done int default 0;

-> declare cur cursor for select id from oldtable;

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

-> open cur;

-> repeat

-> fetch cur into sid;

-> if not exists(select \*from newtable where id=sid) then

-> insert into newtable (select\*from oldtable where id=sid);

-> end if;

-> until done end repeat;

-> close cur;

-> end

-> #

Query OK, 0 rows affected (0.14 sec)

mysql> call merge()#

Query OK, 0 rows affected (0.40 sec)

mysql> select \* from newtable#

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

| id | name | gender | age |

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

| 4 | Atul | M | 0 |

| 1 | Sanjay | M | 20 |

| 2 | Anish | M | 17 |

| 3 | Anjali | F | 15 |

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

4 rows in set (0.00 sec)