## DBMS Lab Quiz Tarun M

PES1UG20CS462

Roll - 57

Section - H

1) List the names of the Technical Analysts and total numbers of blood units processed by them in the ascending order of the number of blood units processed

```
mysql> SELECT ta_name, ta_surname, COUNT(bu_id) AS units FROM technical_anal
yst NATURAL JOIN technical_analyst_blood GROUP BY ta_id ORDER BY units;
 ta_name
            ta_surname
                          units
 Dev
             Mustaine
 Varshini
             Friedman
                              1
                              2
 Vaidehi
             Rogan
                              2
  Varun
             Vai
                              2
            Gilbert
  Sanjeeth
  Sathish
             Petrucci
 rows in set (0.00 sec)
```

2) Write a query to display the number of donors and the number of requests for particular blood groups in the descending order of requests

```
mysql> SELECT * FROM (SELECT blood_group, COUNT(request_id) AS num_requests
FROM requests GROUP BY blood_group) t1 NATURAL JOIN (SELECT blood_group, COU
NT(d_id) AS num_donors FROM donor GROUP BY blood_group) t2 ORDER BY num_requ
ests DESC;
 blood_group | num_requests | num_donors
                                          3
  AB+
                            4
                                         4
  A+
                            2
                                         2
  Α-
                            2
                                          2
  AB-
                            2
                                          1
                            2
  0-
                                          1
                            1
                                          1
  В-
7 rows in set (0.00 sec)
```

3) Write a trigger to prevent the addition of a new Blood Bank in the localities where a blood bank already exists as it requires 'statutory permission'

```
mysql> DELIMITER $$
mysql> CREATE TRIGGER prevent_addition
-> BEFORE INSERT ON blood_bank
              FOR EACH ROW
              IF NEW.bb_locality IN (SELECT bb_locality FROM blood_bank) THEN
SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'New blood bank requires statutory permission';
              END IF;
-> END; $$
Query OK, 0 rows affected (0.01 sec)
 mysql> DELIMITER
mysql> DELIMITER;
mysql> INSERT INTO blood_bank VALUES (1004, 'Manipal Blood Bank', 'Suranjandas Road', 69, 'North Bangalore');
ERROR 1644 (45000): New blood bank requires statutory permission
mysql> INSERT INTO blood_bank VALUES (1004, 'Manipal Blood Bank', 'Suranjandas Road', 69, 'West Bangalore');
Query OK, 1 row affected (0.00 sec)
 mysql> SELECT * FROM blood_bank;
 l bb id l bb name
                                                                                   | bb_building_no | bb_locality
                                                      bb street
                 Red Cross Blood Bank
                                                      MG Road
                                                                                                                  Central Bangalore
                Rotary Blood Bank
Lion's Blood Bank
     1001
                                                       Brigade Road
                                                                                                                 North Bangalore
                                                      Turahalli Road
     1002
                                                                                                        324
                                                                                                                 South Bangalore
                                                                                                                 East Banagalore
West Bangalore
                Minerva Blood Bank
Manipal Blood Bank
                                                      ECC Road
     1003
                                                                                                        444
                                                      Suranjandas Road
   rows in set (0.00 sec)
```