LNMIIT
The LNM Institute of Information Technology

Blood Bank Management System
Group: G-42

Students:

- **Srajit Jain**   **19UCS069**

- **Vaibhav Singhal**   **19UCS018**

- **Daksh Sharma**   **19UCS065**

- **Pearl Kothari**   **19UCS071**

Tables:

- **user**
- **donor**
- **bloodbank**
- **receiver**
- **staff_transaction**

user(**UserID**,username,emailID,Address,phonenumber,password,post,Date);

donor(**UserID,**BloodGrp,AnyDisease,Quantity,Disease,Date,phonenumber);

- FK_1: **UserID** references user(**UserID**);

bloodbank(BloodGrp,Quantity);

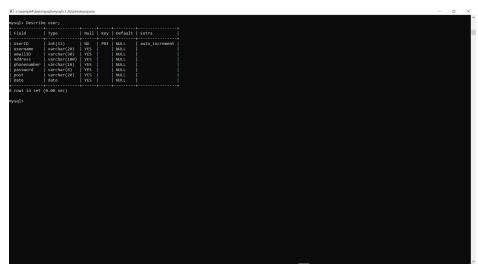receiver(PatientID,PateintName,PateintAge,StaffID,BloodGrp,volume,contact Number,Date);

staff_transaction(StaffID,Date,status);

- **Tables**:


```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> show tables;
+-------------------+
| Tables_in_project |
+-------------------+
| bloodbank         |
| donor             |
| receiver          |
| staff_transaction |
| user              |
+-------------------+
5 rows in set (0.00 sec)

mysql>
```

- **All Tables Description:**

  - *user*


```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> Describe user;
+-------------+--------------+------+-----+---------+----------------+
| Field       | Type         | Null | Key | Default | Extra          |
+-------------+--------------+------+-----+---------+----------------+
| UserID      | int(11)      | NO   | PRI | NULL    | auto_increment |
| username    | varchar(20)  | YES  |     | NULL    |                |
| emailID     | varchar(30)  | YES  |     | NULL    |                |
| Address     | varchar(100) | YES  |     | NULL    |                |
| phonenumber | varchar(10)  | YES  |     | NULL    |                |
| password    | varchar(6)   | YES  |     | NULL    |                |
| post        | varchar(20)  | YES  |     | NULL    |                |
| Date        | date         | YES  |     | NULL    |                |
+-------------+--------------+------+-----+---------+----------------+
8 rows in set (0.00 sec)

mysql>
```

○ *donor*


```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> Describe donor;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| UserID      | int(11)     | YES  | MUL | NULL    |       |
| BloodGrp    | varchar(5)  | YES  |     | NULL    |       |
| AnyDisease  | varchar(5)  | YES  |     | NULL    |       |
| Quantity    | varchar(5)  | YES  |     | NULL    |       |
| Disease     | varchar(30) | YES  |     | NULL    |       |
| Date        | date        | YES  |     | NULL    |       |
| phonenumber | varchar(10) | YES  |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
7 rows in set (0.00 sec)

mysql>
```

○ *bloodbank*


```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> Describe bloodbank;
+----------+------------+------+-----+---------+-------+
| Field    | Type       | Null | Key | Default | Extra |
+----------+------------+------+-----+---------+-------+
| BloodGrp | varchar(5) | YES  |     | NULL    |       |
| Quantity | int(11)    | YES  |     | NULL    |       |
+----------+------------+------+-----+---------+-------+
2 rows in set (0.00 sec)

mysql>
```

○ *receiver*


```
mysql> Describe receiver;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
| PatientName   | varchar(30) | YES  |     | NULL    |       |
| PatientAge    | varchar(3)  | YES  |     | NULL    |       |
| StaffID       | varchar(8)  | YES  |     | NULL    |       |
| BloodGrp      | varchar(4)  | YES  |     | NULL    |       |
| volume        | varchar(5)  | YES  |     | NULL    |       |
| contactNumber | varchar(10) | YES  |     | NULL    |       |
| PatientID     | int(11)     | NO   | PRI | 1       |       |
| Date          | date        | YES  |     | NULL    |       |
+---------------+-------------+------+-----+---------+-------+
8 rows in set (0.00 sec)

mysql>
```

○ *staff_transaction*


```
mysql> describe staff_transaction;
+---------+------------+------+-----+---------+-------+
| Field   | Type       | Null | Key | Default | Extra |
+---------+------------+------+-----+---------+-------+
| Date    | date       | YES  |     | NULL    |       |
| status  | varchar(5) | YES  |     | NULL    |       |
| StaffID | int(11)    | YES  |     | NULL    |       |
+---------+------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql>
```

● *Adding 4 donor and 1 staff in user table:*

insert into user (username,emailID,Address,phonenumber,password,post) VALUES ('pearlkothari','pearlkothari2@gmail.com','anand mohalla oldcity kishangarh','9521074578','1234','Donor'), ('DakshSharma','dakshsharma@gmail.com' ,'332,comet society new delhi','9192192199','123','Donor'), ('vaibhavsinghal','iamvs@gmail.com','apex apartment mumbai','9000000000','090909','Donor'), ('srajit jain','hello@gmail.com ','govindam apartment mumbai','6521078990','090909','Donor'), ('lexi','lexi@gmail.com' ,'lightyear apartment mumbai','9090909110','090909','Staff');

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe                                                              –   🗗   X

mysql>
mysql>  insert into user (username,emailID,Address,phonenumber,password,post) VALUES
    -> ('pearlkothari','pearlkothari2@gmail.com','anand mohalla oldcity kishangarh','9521074578','1234','Donor'),
    -> ('DakshSharma','dakshsharma@gmail.com',' Flat 332, comet apartment new delhi','9192192199','123','Donor'),
    -> ('vaibhavsinghal','iamvs@gmail.com','apex apartment mumbai','9000000000','090909','Donor'),
    -> ('srajit jain','hello@gmail.com','govindam apartment mumbai','6521078990','090909','Donor'),
    -> ('lexi','lexi@gmail.com','lightyear apartment mumbai','9090909110','090909','Staff');
Query OK, 5 rows affected (0.00 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> select*from user;
+--------+---------------+------------------------+-------------------------------------+-------------+----------+-------+------+
| UserID | username      | emailID                | Address                             | phonenumber | password | post  | Date |
+--------+---------------+------------------------+-------------------------------------+-------------+----------+-------+------+
|      1 | pearlkothari  | pearlkothari2@gmail.com | anand mohalla oldcity kishangarh    | 9521074578  | 1234     | Donor | NULL |
|      2 | DakshSharma   | dakshsharma@gmail.com  |  Flat 332, comet apartment new delhi | 9192192199  | 123      | Donor | NULL |
|      3 | vaibhavsinghal | iamvs@gmail.com       | apex apartment mumbai               | 9000000000  | 090909   | Donor | NULL |
|      4 | srajit jain   | hello@gmail.com        | govindam apartment mumbai           | 6521078990  | 090909   | Donor | NULL |
|      5 | lexi          | lexi@gmail.com         | lightyear apartment mumbai          | 9090909110  | 090909   | Staff | NULL |
+--------+---------------+------------------------+-------------------------------------+-------------+----------+-------+------+
5 rows in set (0.00 sec)

mysql> describe user;
+-------------+--------------+------+-----+---------+----------------+
| Field       | Type         | Null | Key | Default | Extra          |
+-------------+--------------+------+-----+---------+----------------+
| UserID      | int(11)      | NO   | PRI | NULL    | auto_increment |
| username    | varchar(20)  | YES  |     | NULL    |                |
| emailID     | varchar(30)  | YES  |     | NULL    |                |
| Address     | varchar(100) | YES  |     | NULL    |                |
| phonenumber | varchar(10)  | YES  |     | NULL    |                |
| password    | varchar(6)   | YES  |     | NULL    |                |
| post        | varchar(20)  | YES  |     | NULL    |                |
| Date        | date         | YES  |     | NULL    |                |
+-------------+--------------+------+-----+---------+----------------+
8 rows in set (0.01 sec)

mysql> ▮
```
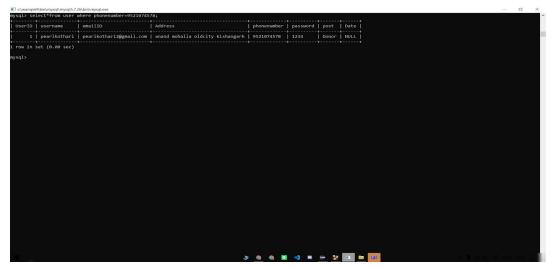
- **Inserting all blood group in bloodbank with initial quantity = 0:**

   insert into bloodbank (BloodGrp,Quantity) Values
   ('A+',0),('B+',0),('O+',0),('AB+',0),('AB-',0),('O-',0),('B-',0),('A-',0);

```
mysql> insert into bloodbank (BloodGrp,Quantity) Values ('A+',0),('B+',0),('O+',0),('AB+',0),('AB-',0),('O-',0),('B-',0),('A-',0);
Query OK, 8 rows affected (0.00 sec)
Records: 8  Duplicates: 0  Warnings: 0

mysql> select*from bloodbank;
+----------+----------+
| BloodGrp | Quantity |
+----------+----------+
| A+       |        0 |
| B+       |        0 |
| O+       |        0 |
| AB+      |        0 |
| AB-      |        0 |
| O-       |        0 |
| B-       |        0 |
| A-       |        0 |
+----------+----------+
8 rows in set (0.00 sec)

mysql>
```

- **Get user with phonenumber = XXXXXXXXX**

   select*from user where phonenumber=XXXXXXXXX;
   For Example : Search user where phone number=9521074578;

```
mysql> select*from user where phonenumber=9521074578;
+--------+------------+---------------------+------------------------------+-------------+----------+-------+------+
| UserID | username   | emailID             | Address                      | phonenumber | password | post  | Date |
+--------+------------+---------------------+------------------------------+-------------+----------+-------+------+
|      1 | pearlkothari | pearlkothari2@gmail.com | anand mohalla oldcity kishangarh | 9521074578  | 1234     | Donor | NULL |
+--------+------------+---------------------+------------------------------+-------------+----------+-------+------+
1 row in set (0.00 sec)

mysql>
```

- **Forgot Password in login page:**

    Finding the user password where userID=XXXXXX and phonenumber=XXXXXXX:

    For Example: Search User Password where phone number=9521074578 and UserID=1;

- **Reset Password of Donor:**

    UPDATE user SET password=XXXXXX where UserID=XXXX and password=XXXXXX;

- **Reset donor phone number:**

  UPDATE user SET phonenumber=XXXXXX where UserID=XXXX and password=XXXXXX;

- **Get ID of donor:**

  Select UserID from user where phone number=XXXXXXXXXX;

- **ADD donor in donor table:**

  insert into donor
  (UserID,BloodGrp,AnyDisease,phonenumber,Disease,Quantity,Date) VALUES (1,'A+','NO',9509019011,'null','100ml','2020-11-20'),
  (2,'AB+','NO',9599919010,'null','50ml','2020-11-20');

- **Updating Blood Bank Quantity Of BloodGroup:**

  For Example: Add 100ml blood in BloodGroup A+

  UPDATE bloodbank SET Quantity= NEW_QNT
  where BloodGrp=XX;

  /*
  NEW_QNT = PREV_QNT + SELECTED_QUNT
  PREV_QNT is the quantity of blood in the blood bank at the
  moment before donating/receiving any blood.
  SELECTED_QUNT is the quantity of blood donated/received by
  the user.
  */

For Example:

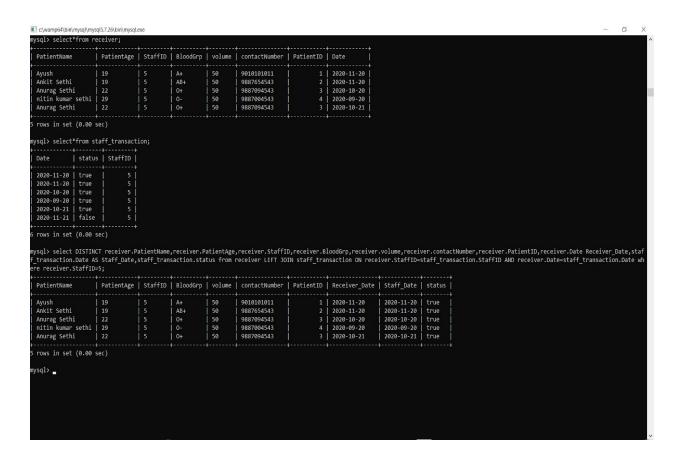ADD 100ML " AB+" Blood

● Insert into receiver:

● Staff_Activity:

Insert into staff_transaction (Date,StaffID,status) VALUES
('2020-11-20',5,'true'),('2020-11-20',5,'true');

- **(ADMIN) To get staff blood providing history with specific ID(BY using JOINS)**

 select DISTINCT
receiver.PatientName,receiver.PatientAge,receiver.StaffID,receiver.BloodGrp,
receiver.volume,receiver.contactNumber,receiver.PatientID,receiver.Date AS
Receiver_Date,staff_transaction.Date AS Staff_Date,staff_transaction.status
from receiver INNER JOIN staff_transaction ON
receiver.StaffID=staff_transaction.StaffID AND
receiver.Date=staff_transaction.Date where receiver.StaffID=5;

- **Delete Any User with their ID :**

  delete from user where userID=enter_the_userID;

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe                                                          —  □  ×
mysql> Delete from user where userID=3;
Query OK, 1 row affected (0.01 sec)

mysql> select*from user;
+--------+--------------+-----------------------+----------------------------------+-------------+----------+-------+------+
| UserID | username     | emailID               | Address                          | phonenumber | password | post  | Date |
+--------+--------------+-----------------------+----------------------------------+-------------+----------+-------+------+
|      1 | pearlkothari | pearlkothari2@gmail.com | anand mohalla oldcity kishangarh | 9887731651  | 123      | Donor | NULL |
|      2 | DakshSharma  | dakshsharma@gmail.com |  Flat 332, comet apartment new delhi | 9192192199 | 123     | Donor | NULL |
|      4 | srajit jain  | hello@gmail.com       | govindam apartment mumbai        | 6521078990  | 090909   | Donor | NULL |
|      5 | lexi         | lexi@gmail.com        | lightyear apartment mumbai       | 9090909110  | 090909   | Staff | NULL |
+--------+--------------+-----------------------+----------------------------------+-------------+----------+-------+------+
4 rows in set (0.00 sec)

mysql>
```