



Blood Bank Management System

Group: G-42

Students:

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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);

- FK_1: StaffID references receiver(StaffID);

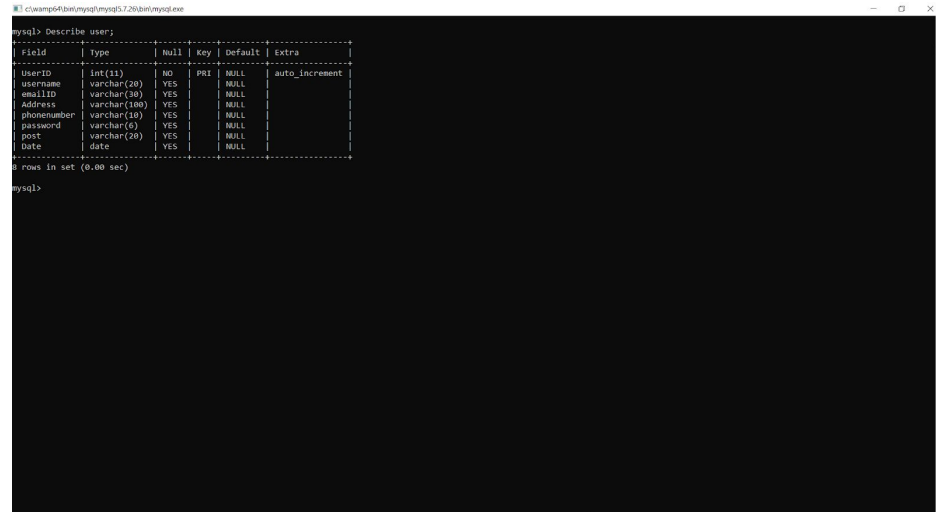
- **Tables:**

```
c:\xampp64\bin\mysql\mysql5.7.20\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*



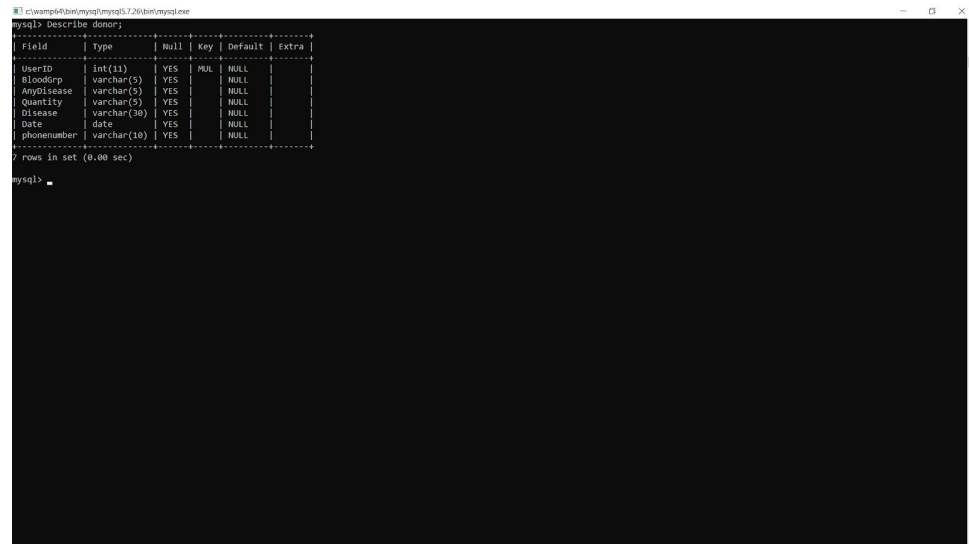
```
mysql> Describe user;
```

Field	Type	Null	Key	Default	Extra
UserID	int(11)	NO	PK	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*



```
mysql> Describe donor;
```

Field	Type	Null	Key	Default	Extra
UserID	int(11)	YES	PK	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:\xampp\htdocs\mysql\mysql>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*

```
c:\xampp\htdocs\mysql\mysql>mysql> Describe receiver;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| PatientName | varchar(30) | YES | | NULL | |
| PatientAge | varchar(2) | YES | | NULL | |
| StaffID | varchar(6) | 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***

```
c:\wamp64\bin\mysql\mysql5.7.20\bin\mysql.exe
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','iamsvs@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');
```

```
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','iamsvs@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 | iamsvs@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 = XXXXXXXXXX**

select*from user where phonenumber=XXXXXXXXXX;

For Example : Search user where phone number=9521074578;

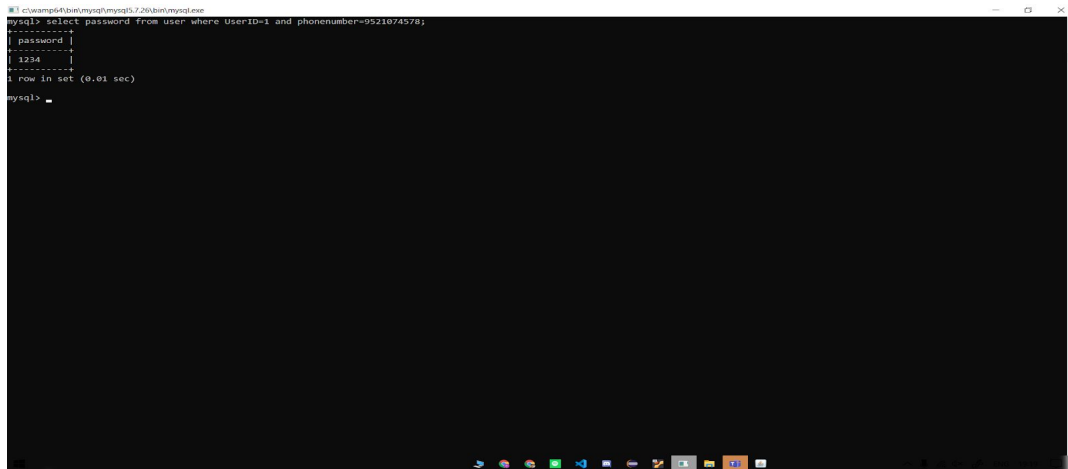
```
mysql> select*from user where phonenumber=9521074578;
+-----+
| UserID | username | emailID | Address | phonenumber | password | post | Date |
+-----+
| 1      | pearlkothari | pearlkothari2@gmail.com | anand mohalla oldcity kishangarh | 9521074578 | 1234 | Donor | NULL |
+-----+
1 row in set (0.00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

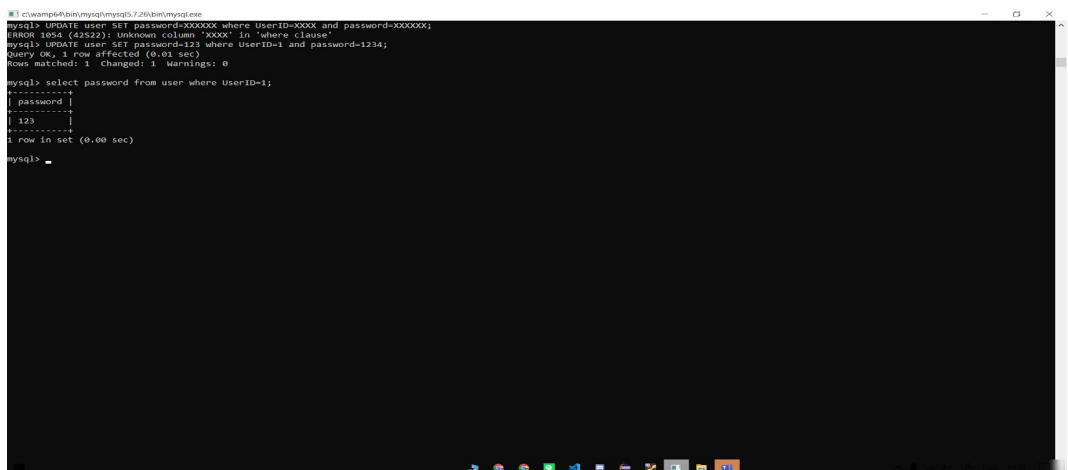


```
c:\xampp\bin\mysql>mysql -u root -p
mysql> select password from user where UserID=1 and phonenumber=9521074578;
+-----+
| password |
+-----+
| 1234     |
+-----+
1 row in set (0.01 sec)

mysql>
```

- **Reset Password of Donor:**

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



```
c:\xampp\bin\mysql>mysql -u root -p
mysql> UPDATE user SET password=XXXXXX where UserID=XXXX and password=XXXXXX;
ERROR 1054 (42S22): Unknown column 'XXXX' in 'where clause'
mysql> UPDATE user SET password=123 where UserID=1 and password=1234;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select password from user where UserID=1;
+-----+
| password |
+-----+
| 123      |
+-----+
1 row in set (0.00 sec)

mysql>
```

- **Reset donor phone number:**

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

[illegible]

- **Get ID of donor:**

Select UserID from user where phone number=XXXXXXXXXX;

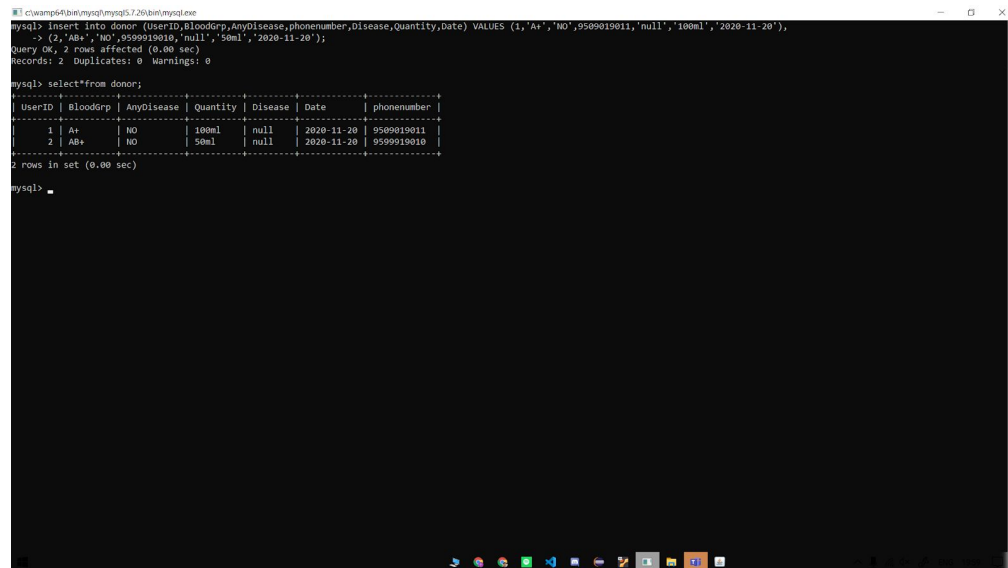
```
mysql> select UserID from user where phonenumber=9887731651;
+-----+
| UserID |
+-----+
|      1 |
+-----+
1 row in set (0.00 sec)

mysql>
```

- **ADD donor in donor table:**

insert into donor

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



```

mysql> insert into donor (UserID,BloodGrp,AnyDisease,phonenum,er,Disease,Quantity,Date) VALUES (1,'A+','NO',9509019011,'null','100ml','2020-11-20'),
-> (2,'AB+','NO',9599919010,'null','50ml','2020-11-20');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select*from donor;
+----+-----+-----+-----+-----+-----+-----+
| UserID | BloodGrp | AnyDisease | Quantity | Disease | Date       | phonenum |
+----+-----+-----+-----+-----+-----+-----+
| 1      | A+       | NO        | 100ml    | null    | 2020-11-20 | 9509019011 |
| 2      | AB+      | NO        | 50ml     | null    | 2020-11-20 | 9599919010 |
+----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>

```

- **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

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> select quantity from bloodbank where BloodGrp='AB+';
+-----+
| quantity |
+-----+
| 0 |
+-----+
1 row in set (0.00 sec)

mysql> UPDATE bloodbank SET QUANTITY=0+100 where BloodGrp='AB+';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select quantity from bloodbank where BloodGrp='AB+';
+-----+
| quantity |
+-----+
| 100 |
+-----+
1 row in set (0.00 sec)

mysql>
```

- **Insert into receiver:**

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> insert into receiver (PatientID,PatientName,PatientAge,StaffID,BloodGrp,volume,contactNumber,Date) VALUES (2,'Ankit Sethi',19,5,'AB+',50,9887654543,'2020-11-20');UPDATE bloodbank SET
Quantity=50 where BloodGrp='AB+';
Query OK, 1 row affected (0.00 sec)

Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> select * from receiver;
+-----+-----+-----+-----+-----+-----+-----+
| PatientName | PatientAge | StaffID | BloodGrp | volume | contactNumber | PatientID | Date |
+-----+-----+-----+-----+-----+-----+-----+
| Ayush       | 19         | 5       | A+       | 50     | 9010101011    | 1         | 2020-11-20 |
| Ankit Sethi | 19         | 5       | AB+      | 50     | 9887654543    | 2         | 2020-11-20 |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

- **Staff_Activity:**

```
c:\wamp64\bin\mysql\mysql5.7.26\bin\mysql.exe
mysql> insert into staff_transaction (date,staffid,status) VALUES ('2020-11-20',5,'true');
Query OK, 1 row affected (0.00 sec)

mysql> insert into staff_transaction (date,staffid,status) VALUES ('2020-11-20',5,'true');
Query OK, 1 row affected (0.00 sec)

mysql> select * from staff_transaction;
+-----+-----+-----+
| date   | status | staffid |
+-----+-----+-----+
| 2020-11-20 | true   | 5       |
| 2020-11-20 | true   | 5       |
+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```