Description: -

MYSQL database is accessed from the Desktop Application with Database name as BloodConnect i.e user directly interacts with the database by the Java Application Gui.

An account is maintained for every Donor, Hospital and Blood Bank. Data of every **entity** of the ER Diagram is stored in MYSQL database. Donor can update his info. Only hospitals or Blood Banks can request registered donors in case of emergency.

Hospital can get to know the blood availability of its own and its related Blood Bank. Similarly blood bank can do the same.

So whenever a hospital/Blood bank requests a particular Blood Group ,then it can check donors falling under it's pincode region.

Simple Queries

1 -Signing of a Donor

INSERTINTOdonor (username,email,password,bloodgroup,gender,phone,pincode) VALUES ('Shubhangi', 'shu123@gmail.com', 'shu0123','AB+', 'Female', '1234567890','4')

✓ 1 row inserted. (Query took 0.0873 seconds.)
INSERT INTO donor (username,email,password,bloodgroup,gender,phone,pincode) VALUES ('Shubhangi', 'shu123@gmail.com', 'shu@123','AB+', 'Female', '1234567890','4')
[Edit inline] [Edit] [Create PHP code]

2-Login as a Donor

SELECT* FROMdonor WHEREusername='Shubhangi'andpassword='shu@123'



3-Login as Hospital

SELECT* FROMhospital WHEREhid='H9'andpassword='H9h9'



4-Login as BloodBank

SELECT* FROMbloodbank WHEREBid='B12'andpassword='B12b12'

	uery t	ook 0.0018 sec	ls.)
SELECT * FROM bloodbank WHERE Bid	='812'	and password='E	12'
			☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresi
Show all Number of roo	ws:	25 ▼ Fi	rows: Search this table
+ Options ← T → ▼	Bid	password	
□ / Edit 3- Copy □ Delete	Child Spinish	***************************************	

5-Change Password of Donor

<u>UPDATE</u>donor <u>SETpassword</u>='shu@321'WHEREusername='Shubhangi'

```
✓ 1 row affected. (Query took 0.0993 seconds.)
UPDATE donor SET password='shu@321' WHERE username='Shubhangi'
[Edit inline] [Edit] [ Create PHP code
```

6-Change Password of Hospital

<u>UPDATE</u>hospital <u>SETpassword</u>='Hnewhnew'WHEREhid='H3'

```
✓ 1 row affected. (Query took 0.1427 seconds.)
UPDATE hospital SET password='Hnewhnew' WHERE hid='H3'
```

7-Change Password of Blood Bank

UPDATEbloodbank SETpassword='Bnewbnew'WHEREBid='B7'

```
✓ 1 row affected. (Query took 0.0939 seconds.)

UPDATE bloodbank SET password='Bnewbnew' WHERE Bid='B7'

[Edit inline] [Edit] [ Create PHP code ]
```

8- Updating phone of Donor

<u>UPDATE</u>donor <u>SET</u>phone='987654321'whereusername='Shubhangi'

```
✓ 1 row affected. (Query took 0.1051 seconds.)

UPDATE donor SET phone='987654321' where username='Shubhangi'

[Edit inline] [Edit] [Create PHP code]
```

9-Update Pincode (Address)

UPDATEdonor <u>SET</u>pincode='0'whereusername='Shubhangi'

```
✓ 1 row affected. (Query took 0.1006 seconds.)

UPDATE donor SET pincode='0' where username='Shubhangi'

[Edit inline] [Edit] [Create PHP code]
```

10-Delete Donor Account

DELETE from donor where username="Shubhangi"

✓ 1 row affected. (Query took 0.0751 seconds.)

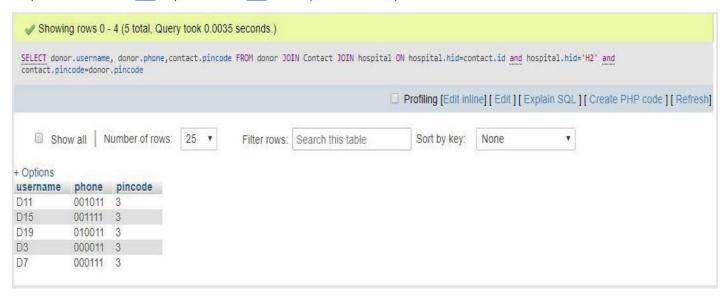
DELETE from donor where username="Shubhangi"

[Edit inline] [Edit] [Create PHP code]

Complex Queries: -

1-Finding Donors nearby H2 Hospital (particular) of any blood Group for campaign purpose

<u>SELECT</u>donor.username, donor.phone,contact.pincodeFROMdonor JOINContact JOINhospital ON hospital.hid=contact.id<u>and</u>hospital.hid='H2'andcontact.pincode=donor.pincode



2- Finding Donors nearby H5 Hospital (particular) of "O+" blood Group

<u>SELECT</u>donor.username, donor.phone,contact.pincode,donor.bloodgroupFROMdonor JOINContact JOINhospital ONhospital.hid=contact.id<u>and</u>hospital.hid='H5'andcontact.pincode=donor.pincode<u>and</u>donor.bloodgroup='O+'

✓ Showir	ig rows 0	1 (2 total, 0	Query took 0.003	7 seconds.)					
			ne,contact.pincod d donor.bloodgrou		oup FROM donor JOIN Con	tact JOIN hospital O	N hospital.hid=	contact.id and h	ospital.hid='H5' and
						Profiling [Edit inl	ine] [Edit] [Ex	cplain SQL][Cre	ate PHP code] [Refresh]
☐ Sho	w all N	umber of ro	ows: 25 ▼	Filter rows:	Search this table	Sort by key:	None	•	
+ Options username	phone	pincode	bloodgroup						
D17	010001	1	0+						
D5	000101	1	0+						

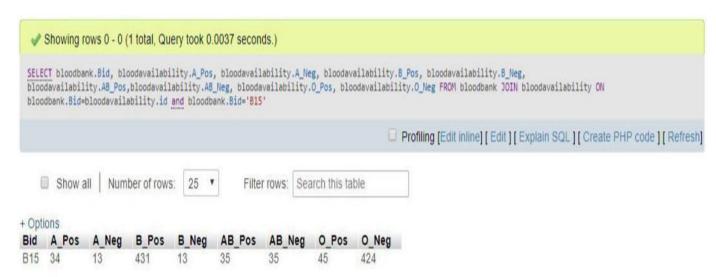
3-Blood availability by hospital H12

SELECThospital.hid, bloodavailability.A_Pos, bloodavailability.A_Neg, bloodavailability.B_Pos, bloodavailability.B_Neg, bloodavailability.AB_Neg, bloodavailability.O_Pos, bloodavailability.O_NegFROMhospital JOINbloodavailability ONhospital.hid=bloodavailability.id andhospital.hid='H12'



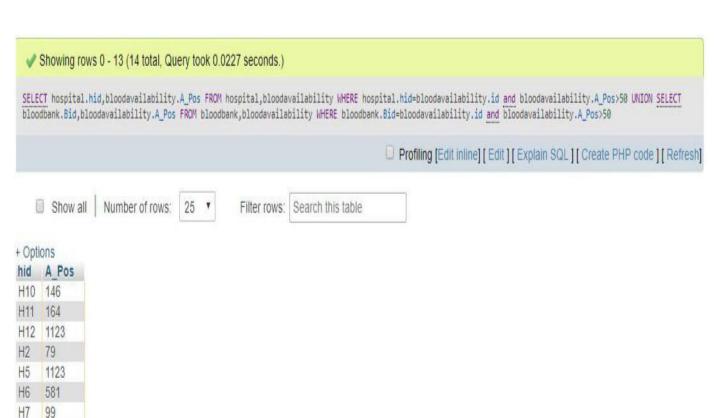
4- Blood availability by Blood Bank B15

<u>SELECT</u>bloodbank.Bid, bloodavailability.A_Pos, bloodavailability.A_Neg, bloodavailability.B_Pos, bloodavailability.B_Neg, bloodavailability.B_Neg, bloodavailability.O_Pos, bloodavailability.O_NegFROMbloodbank JOINbloodavailability ONbloodbank.Bid=bloodavailability.idand bloodbank.Bid='B15'



5- List of hospitals and blood bank which have the quantity of blood group A+ greater than 50

<u>SELECT</u>hospital.hid,bloodavailability.A_PosFROMhospital,bloodavailability WHEREhospital.hid=bloodavailability.id <u>and</u>bloodavailability.A_Pos>50UNION<u>SELECT</u>bloodbank.Bid,bloodavailability.A_PosFROM bloodbank.bloodavailability WHEREbloodbank.Bid=bloodavailability.id<u>and</u>bloodavailability.A_Pos>50



H8 91

H9 91

B1

B2 123

B3

B4 84 B5 88

91

145

6-Update of A+ blood group of H14 hospital

√ 1 row affected. (Query took 0.1051 seconds.)

UPDATE bloodavailability JOIN hospital SET bloodavailability.A_Pos='50' WHERE hospital.hid=bloodavailability.id and bloodavailability.id="H14"

[Edit inline] [Edit] [Create PHP code]