

## 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

```
INSERT INTO donor (username,email,password,bloodgroup,gender,phone,pincode) VALUES ('Shubhangi', 'shu123@gmail.com', 'shu@123', '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'
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0019 seconds.)

```
SELECT * FROM donor WHERE username='Shubhangi' and password='shu@123'
```

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	username	email	password	bloodgroup	gender	phone	pincode
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	Shubhangi	shu123@gmail.com	shu@123	AB+	Female	1234567890	4

↑ ☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

## 3-Login as Hospital

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

✓ Showing rows 0 - 0 (1 total, Query took 0.0018 seconds.)

```
SELECT * FROM hospital WHERE hid='H9' and password='H9h9'
```

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	hid	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	H9	H9h9

↑ ☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

## 4-Login as BloodBank

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

✓ Showing rows 0 - 0 (1 total, Query took 0.0018 seconds.)

```
SELECT * FROM bloodbank WHERE Bid='B12' and password='B12b12'
```

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	Bid	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	B12	B12b12

## 5-Change Password of Donor

```
UPDATE donor SET password='shu@321' WHERE username='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

```
UPDATE hospital SET password='Hnewhnew' WHERE hid='H3'
```

✓ 1 row affected. (Query took 0.1427 seconds.)

```
UPDATE hospital SET password='Hnewhnew' WHERE hid='H3'
```

## 7-Change Password of Blood Bank

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

```
UPDATE donor SET phone='987654321' where username='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)

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

```
SELECT donor.username, donor.phone, contact.pincode FROM donor JOIN Contact JOIN hospital ON hospital.hid=contact.id and hospital.hid='H2' and contact.pincode=donor.pincode
```

✓ Showing rows 0 - 4 (5 total, Query took 0.0035 seconds.)

```
SELECT donor.username, donor.phone, contact.pincode FROM donor JOIN Contact JOIN hospital ON hospital.hid=contact.id and hospital.hid='H2' and contact.pincode=donor.pincode
```

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username	phone	pincode
D11	001011	3
D15	001111	3
D19	010011	3
D3	000011	3
D7	000111	3

## 2- Finding Donors nearby H5 Hospital (particular) of “O+” blood Group

```
SELECT donor.username, donor.phone, contact.pincod, donor.bloodgroup FROM donor JOIN Contact JOIN hospital ON hospital.hid=contact.id and hospital.hid='H5' and contact.pincod=donor.pincod and donor.bloodgroup='O+'
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0037 seconds.)

```
SELECT donor.username, donor.phone, contact.pincod, donor.bloodgroup FROM donor JOIN Contact JOIN hospital ON hospital.hid=contact.id and hospital.hid='H5' and contact.pincod=donor.pincod and donor.bloodgroup='O+'
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

username	phone	pincod	bloodgroup
D17	010001	1	O+
D5	000101	1	O+

## 3-Blood availability by hospital H12

```
SELECT hospital.hid, bloodavailability.A_Pos, bloodavailability.A_Neg, bloodavailability.B_Pos, bloodavailability.B_Neg, bloodavailability.AB_Pos, bloodavailability.AB_Neg, bloodavailability.O_Pos, bloodavailability.O_Neg FROM hospital JOIN bloodavailability ON hospital.hid=bloodavailability.id and hospital.hid='H12'
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0039 seconds.)

```
SELECT hospital.hid, bloodavailability.A_Pos, bloodavailability.A_Neg, bloodavailability.B_Pos, bloodavailability.B_Neg, bloodavailability.AB_Pos, bloodavailability.AB_Neg, bloodavailability.O_Pos, bloodavailability.O_Neg FROM hospital JOIN bloodavailability ON hospital.hid=bloodavailability.id and hospital.hid='H12'
```

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hid	A_Pos	A_Neg	B_Pos	B_Neg	AB_Pos	AB_Neg	O_Pos	O_Neg
H12	1123	112	1364	194	146	94	92	94

#### 4- Blood availability by Blood Bank B15

```
SELECT bloodbank.Bid, bloodavailability.A_Pos, bloodavailability.A_Neg, bloodavailability.B_Pos, bloodavailability.B_Neg, bloodavailability.AB_Pos, bloodavailability.AB_Neg, bloodavailability.O_Pos, bloodavailability.O_Neg FROM bloodbank JOIN bloodavailability ON bloodbank.Bid=bloodavailability.id and bloodbank.Bid='B15'
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0037 seconds.)

```
SELECT bloodbank.Bid, bloodavailability.A_Pos, bloodavailability.A_Neg, bloodavailability.B_Pos, bloodavailability.B_Neg, bloodavailability.AB_Pos, bloodavailability.AB_Neg, bloodavailability.O_Pos, bloodavailability.O_Neg FROM bloodbank JOIN bloodavailability ON bloodbank.Bid=bloodavailability.id and bloodbank.Bid='B15'
```

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Bid	A_Pos	A_Neg	B_Pos	B_Neg	AB_Pos	AB_Neg	O_Pos	O_Neg
B15	34	13	431	13	35	35	45	424

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

```
SELECT hospital.hid, bloodavailability.A_Pos FROM hospital, bloodavailability WHERE hospital.hid= bloodavailability.id and bloodavailability.A_Pos > 50 UNION SELECT bloodbank.Bid, bloodavailability.A_Pos FROM bloodbank, bloodavailability WHERE bloodbank.Bid= bloodavailability.id and bloodavailability.A_Pos > 50
```

✓ Showing rows 0 - 13 (14 total, Query took 0.0227 seconds.)

```
SELECT hospital.hid, bloodavailability.A_Pos FROM hospital, bloodavailability WHERE hospital.hid= bloodavailability.id and bloodavailability.A_Pos > 50 UNION SELECT bloodbank.Bid, bloodavailability.A_Pos FROM bloodbank, bloodavailability WHERE bloodbank.Bid= bloodavailability.id and bloodavailability.A_Pos > 50
```

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hid	A_Pos
H10	146
H11	164
H12	1123
H2	79
H5	1123
H6	581
H7	99
H8	91
H9	91
B1	91
B2	123
B3	145
B4	84
B5	88



## 6-Update of A+ blood group of H14 hospital

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

✓ 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]