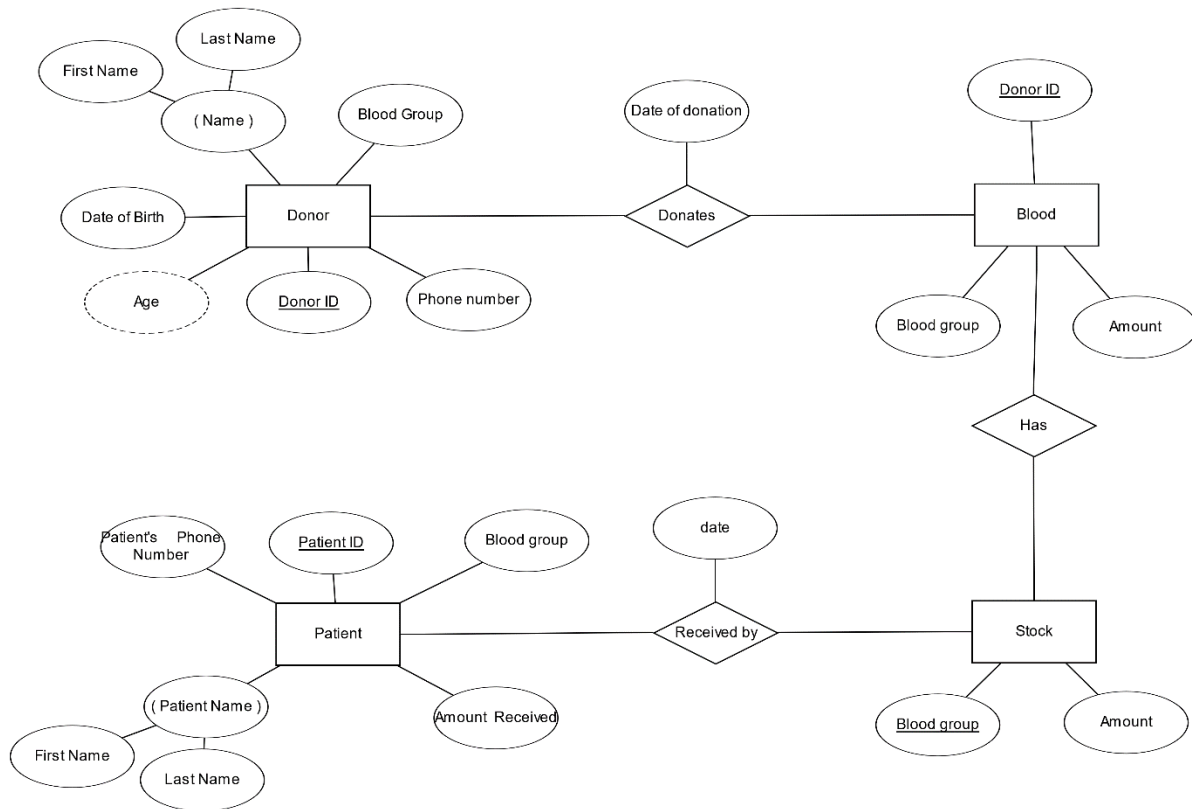# COCSC05-DBMS

PROJECT FILE

Abstract

This project is about making a Blood Bank Management System and includes both Front-End as well as Back-End. Front-End is made using HTML and CSS and Back-End is made using MYSQL and PHP

Amogh Garg-2020UCO1688
Anant-2020UCO1693
Daksh Chetiwal-2020UCO1646

E-R DIAGRAM:

RELATIONAL SCHEMA:

DONOR (Donor_ID, First_Name, Last_Name, DOB, DPhone)

DONATED_BLOOD (Donor_ID, DOD, Blood_Group, Amt_Donated)

BLOOD_STOCK (Blood_Group, Amt_Available)

PATIENT (Patient_ID, PFirst_Name, PLast_Name, PPhone, PDOB)

RECEIVED_BLOOD (Blood_Group, DOR,Blood_Group, Amt_Received)

KEYS AND TRIGGERS:

TABLE DONOR: Primary key is Donor_ID.

TABLE DONATED_BLOOD: Donor_ID is the Foreign-Key in this table.
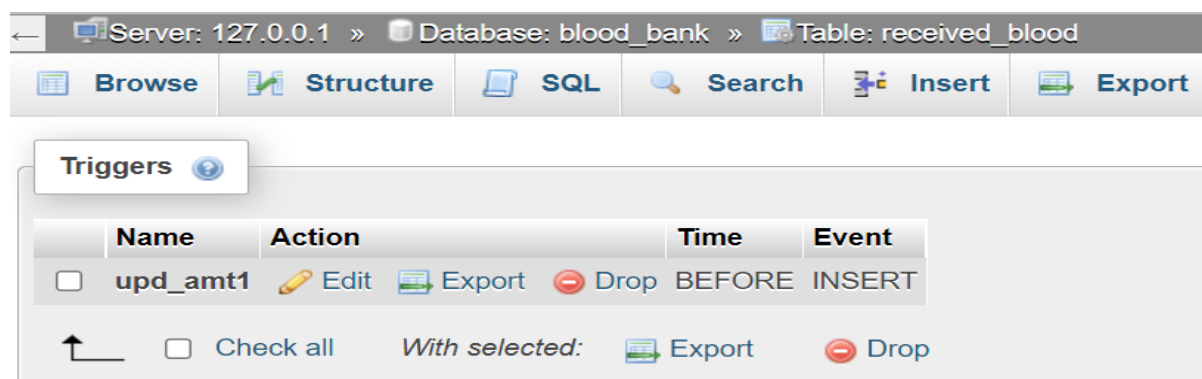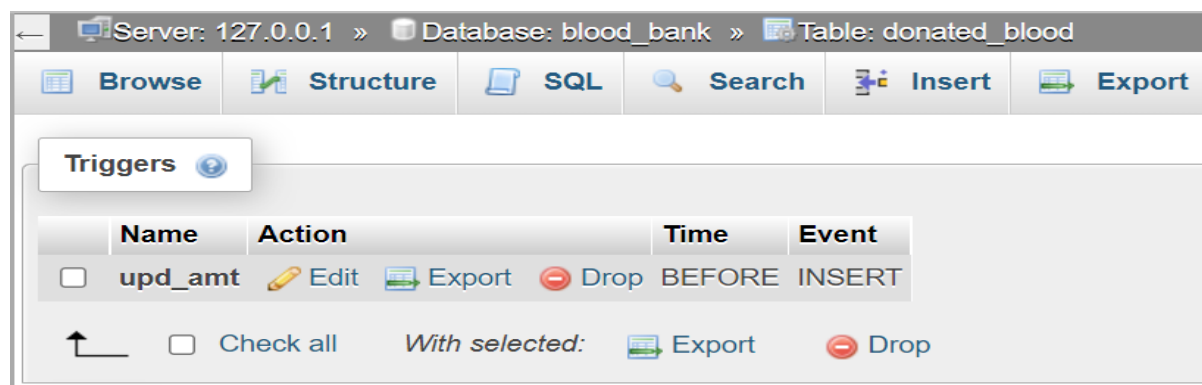
TABLE BLOOD_STOCK: Blood_Group is the Primary-Key.
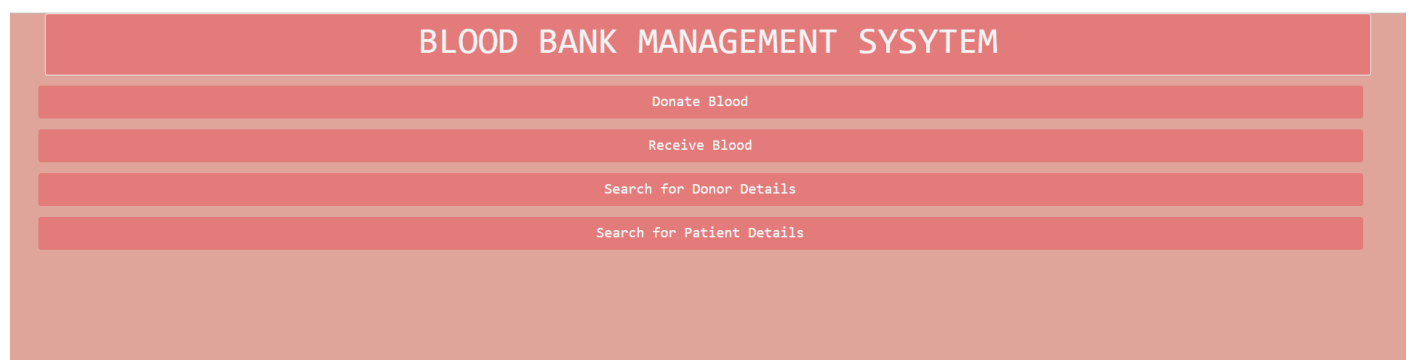
TABLE PATIENT: Patient_ID is the Primary-Key.

TABLE RECEIVED_BLOOD: Patient_ID is the Foreign-Key in this table.

There are 3 triggers which have been implemented in our database and are as follows:

1. First trigger is to update Amt_Available in Blood_Stock when inserting data in Donated_Blood table that is after donation has been done.

2. Second trigger is to update Amt_Available in Blood_Stock when inserting data is Received_Blood that is after receiving blood from blood-bank.

3. Third trigger is to check whether the requested amount of blood is available in the blood bank or not. If not available request to receive blood would be denied.

Server: 127.0.0.1 » Database: blood_bank » Table: donated_blood

| Browse | Structure | SQL | Search | Insert | Export |

Triggers ⓘ

Name	Action			Time	Event
☐ upd_amt	✏ Edit	🖳 Export	⊖ Drop	BEFORE	INSERT

↑ ☐ Check all   With selected: 🖳 Export   ⊖ Drop

Server: 127.0.0.1 » Database: blood_bank » Table: received_blood

| Browse | Structure | SQL | Search | Insert | Export |

Triggers ⓘ

Name	Action			Time	Event
☐ upd_amt1	✏ Edit	🖳 Export	⊖ Drop	BEFORE	INSERT

↑ ☐ Check all   With selected: 🖳 Export   ⊖ Drop

FUNCTIONALITIES:

BLOOD BANK MANAGEMENT SYSYTEM
Donate Blood
Receive Blood
Search for Donor Details
Search for Patient Details

DONOR INFORMATION

Fill in the details

Donor-ID

First Name

Last Name

Contact Number

Date of Birth
dd-mm-yyyy

Submit

Already have a Donor-ID? Click Here

DONATING INFORMATION

Fill in the details

Donor-ID

Blood Group

Date of Donation
dd-mm-yyyy

Amount Donated in Units(1 Unit=100ml)

Submit

RECEIVING INFORMATION

Fill in the details

Patient-ID

Blood Group

Date of Receiving
dd-mm-yyyy

Amount to be Received(in Units)

Submit

DONOR DETAILS

Enter the Donor-ID: [   ] [Search]

Donor-ID	1
First Name	Amogh
Last Name	Garg
Date Of Birth	2002-09-20
Contact Number	8130463841

DONATION DETAILS

Date of Donation	Blood Group	Amount Donated in Units(1 Unit=100ml)
2021-11-29	O+	2
2021-11-29	O+	1
2021-12-06	O+	3

PATIENT DETAILS

Enter the Patient-ID: [   ] [Search]

Patient-ID	1
First Name	Amogh
Last Name	Garg
Date Of Birth	2002-09-20
Contact Number	8130463841

RECEIVING DETAILS

Date of Receiving	Blood Group	Amount Received in Units(1 Unit=100ml)
2021-11-30	O+	1
2021-12-06	O+	2

TABLE DATA:

DONOR:

+ Options

				DONOR_ID	FIRST_NAME	LAST_NAME	DOB	PHONE
☐	🖉 Edit	Copy	⊖ Delete	1	Amogh	Garg	2002-09-20	8130463841
☐	🖉 Edit	Copy	⊖ Delete	2	Akshat	Barwal	2002-02-10	7042031953
☐	🖉 Edit	Copy	⊖ Delete	3	Daksh	Chetiwal	2006-06-14	9898989898
☐	🖉 Edit	Copy	⊖ Delete	4	Anant	Pandey	2016-06-08	9797979797
☐	🖉 Edit	Copy	⊖ Delete	5	Harkeerat	Singh	2002-05-01	8080808080

DONATED_BLOOD:

+ Options

DONOR_ID	DOD	BLOOD_GROUP	AMT_DONATED
1	2021-11-29	O+	2
1	2021-11-29	O+	1
2	2021-12-01	B+	2
3	2021-12-05	B+	3
5	2021-12-05	B-	1
5	2021-12-05	B-	3
4	2020-02-12	A-	3

BLOOD_STOCK:

+ Options

←T→				BLOOD_GROUP	AMT_AVAILABLE
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	A+	0
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	A-	2
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	AB+	0
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	AB-	0
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	B+	3
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	B-	2
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	O+	1
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	O-	0

PATIENT:

←T→				PATIENT_ID	PFIRST_NAME	PLAST_NAME	PPHONE	PDOB
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	1	Amogh	Garg	8130463841	2002-09-20
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	2	Akshat	Barwal	7042031953	2002-02-10
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	3	Daksh	Chetiwal	9898989898	2018-06-06
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	4	Anant	Pandey	9797979797	2016-06-08
☐	🖊 Edit	ᗰᵉ Copy	⊖ Delete	5	Harkeerat	Singh	8080808080	2002-05-01

RECEIVED_BLOOD:

PATIENT_ID	DOR	BLOOD_GROUP	AMT_RECEIVED
1	2021-11-30	O+	1
2	2021-12-01	O+	1
3	2021-12-05	B+	2
5	2021-12-05	B-	2
4	2021-12-03	A-	1

LINK OF ENTIRE CODE AND DEMO VIDEO OF THE APPLICATION:
https://drive.google.com/drive/folders/15OltIl3bKvFficvweMsMZQaGziXuiG74?usp=sharing