



COCSC05-DBMS

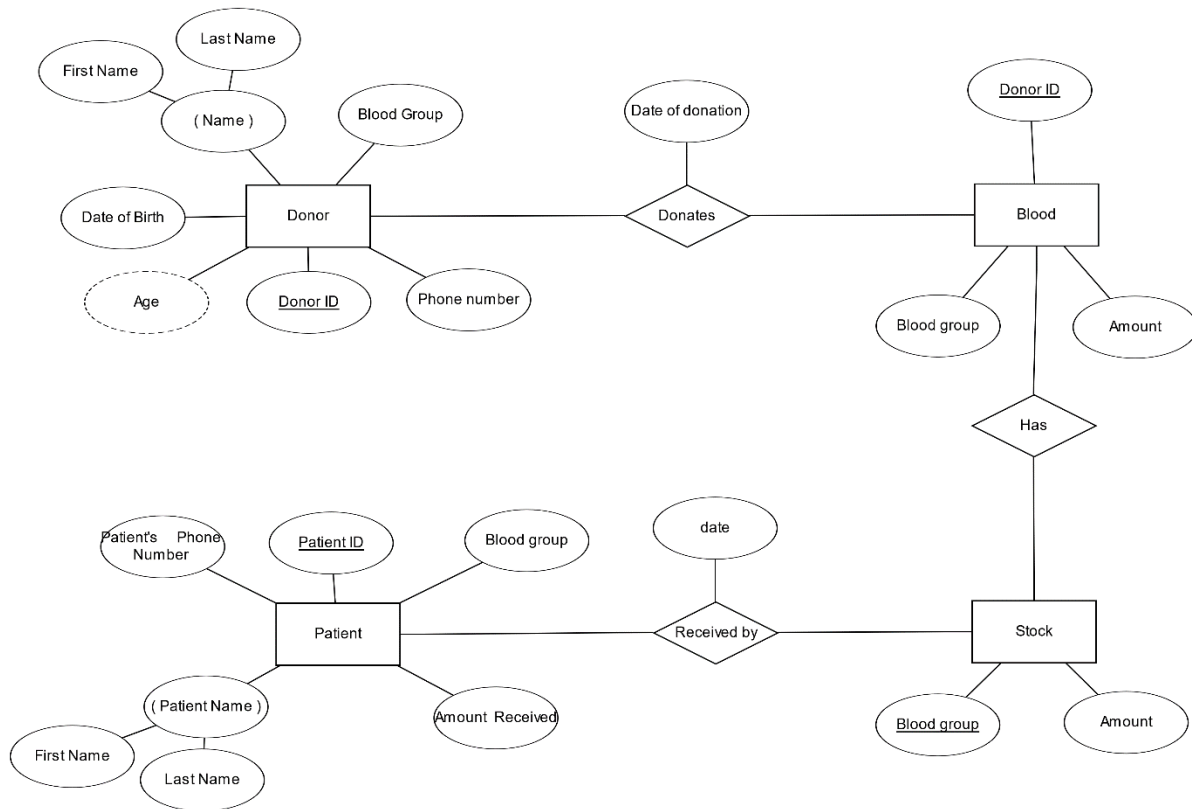
PROJECT FILE

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

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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)

Server: 127.0.0.1 » Database: blood_bank

Structure SQL Search Query Export Import Operations Privileges Routines Events More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> blood_stock		8	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> donated_blood		4	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> donor		3	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> patient		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> received_blood		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
5 tables	Sum	21	InnoDB	utf8mb4_general_ci	112.0 KiB	0 B

☐ Check all With selected:

Print Data dictionary

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.

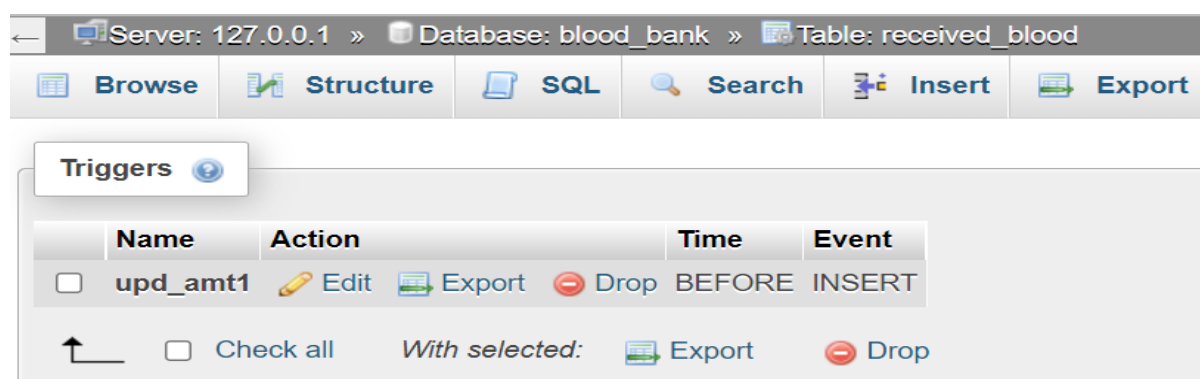
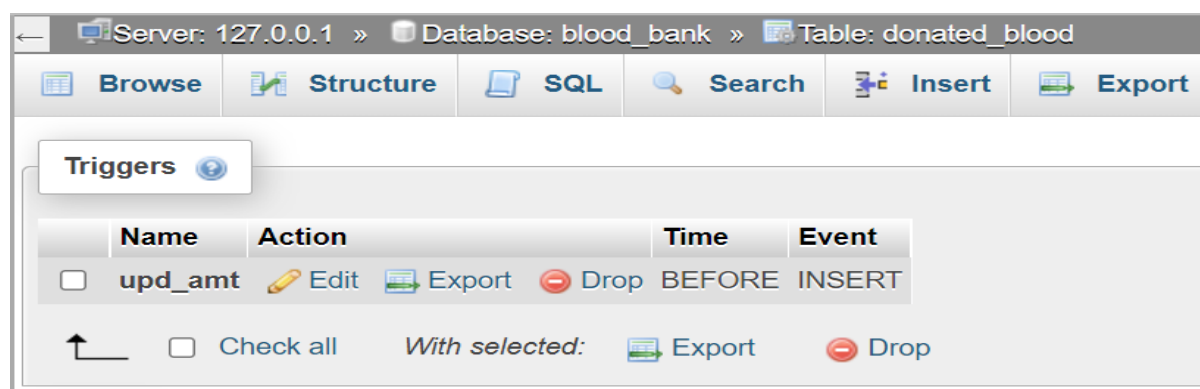
TABLE PATIENT: Patient_ID is the Primary-Key.

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.

Added Later: A trigger to ensure that donor's age is greater than 18 years.



FUNCTIONALITIES:



DONOR INFORMATION

Fill in the details

Donor-ID	<input type="text"/>
First Name	<input type="text"/>
Last Name	<input type="text"/>
Contact Number	<input type="text"/>
Date of Birth	<input type="text" value="dd-mm-yyyy"/> 
<input type="button" value="Submit"/>	

Already have a Donor-ID? [Click Here](#)


DONATING INFORMATION

Fill in the details

Donor-ID	<input type="text"/>
Blood Group	<input type="text"/>
Date of Donation	<input type="text" value="dd-mm-yyyy"/> 
Amount Donated in Units(1 Unit=100ml)	<input type="text"/>
<input type="button" value="Submit"/>	

RECEIVING INFORMATION

Fill in the details

Patient-ID	<input type="text"/>
Blood Group	<input type="text"/>
Date of Receiving	<input type="text" value="dd-mm-yyyy"/> 
Amount to be Received(in Units)	<input type="text"/>
<input type="button" value="Submit"/>	
















Enter the Donor-ID:

Enter the Patient-ID:

TABLE DATA:

DONOR:

+ Options

<div>← T →</div>				DONOR_ID	FIRST_NAME	LAST_NAME	DOB	PHONE
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Amogh	Garg	2002-09-20	8130463841
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Akshat	Barwal	2002-02-10	7042031953
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Daksh	Chetiwal	2006-06-14	9898989898
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	Anant	Pandey	2016-06-08	9797979797
<input type="checkbox"/>	 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

		BLOOD_GROUP	AMT_AVAILABLE
<input type="checkbox"/>	 Edit  Copy  Delete	A+	0
<input type="checkbox"/>	 Edit  Copy  Delete	A-	2
<input type="checkbox"/>	 Edit  Copy  Delete	AB+	0
<input type="checkbox"/>	 Edit  Copy  Delete	AB-	0
<input type="checkbox"/>	 Edit  Copy  Delete	B+	3
<input type="checkbox"/>	 Edit  Copy  Delete	B-	2
<input type="checkbox"/>	 Edit  Copy  Delete	O+	1
<input type="checkbox"/>	 Edit  Copy  Delete	O-	0

PATIENT:

		PATIENT_ID	PFIRST_NAME	PLAST_NAME	PPHONE	PDOB
<input type="checkbox"/>	 Edit  Copy  Delete	1	Amogh	Garg	8130463841	2002-09-20
<input type="checkbox"/>	 Edit  Copy  Delete	2	Akshat	Barwal	7042031953	2002-02-10
<input type="checkbox"/>	 Edit  Copy  Delete	3	Daksh	Chetiwal	9898989898	2018-06-06
<input type="checkbox"/>	 Edit  Copy  Delete	4	Anant	Pandey	9797979797	2016-06-08
<input type="checkbox"/>	 Edit  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/150ltlI3bKvFficvweMsMZQaGziXuiG74?usp=sharing>

