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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

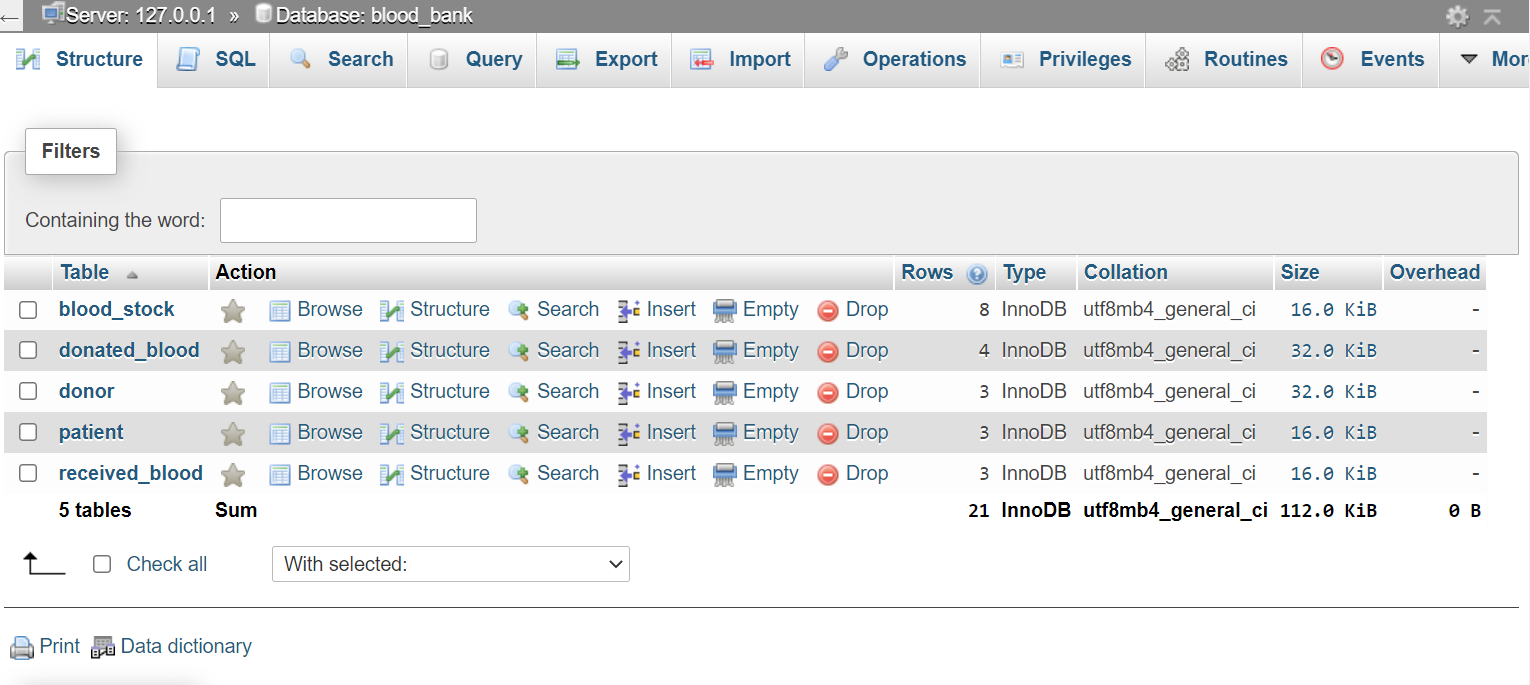
COCSC05-DBMS

PROJECT FILE

# **E-R DIAGRAM:**

# RELATIONAL SCHEMA:

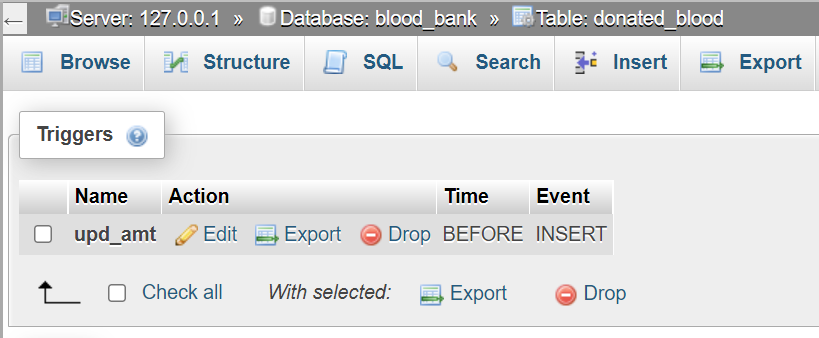
DONOR (Donor\_ID, First\_Name, Last\_Name, DOB, DPhone)  
DONATED\_BLOOD (Donor\_ID, DOD, Blood\_Group, Amt\_Donated)  
BLOOD\_STOCK (Blood\_Group, Amt\_Available)  
PATIENT (Patient\_ID, PFirst\_Name, PLast\_Name, PPhone, PDOB)  
RECEIVED\_BLOOD (Blood\_Group, DOR,Blood\_Group, Amt\_Received)

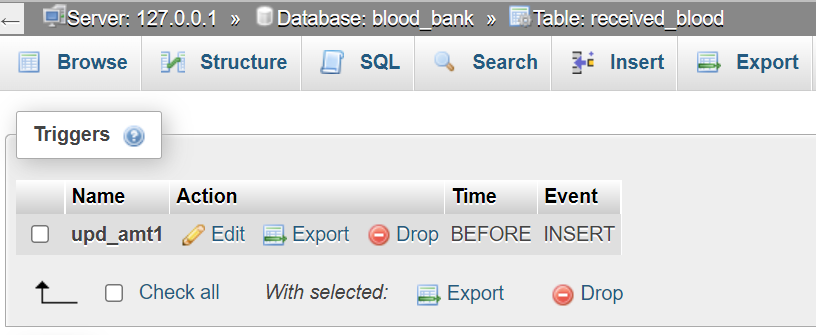
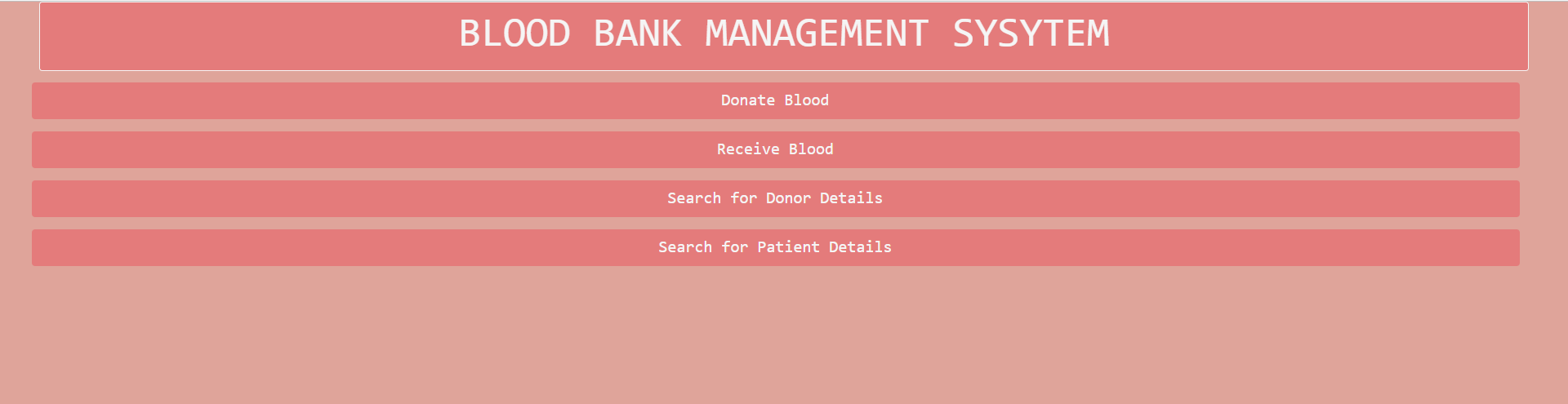


# KEYS AND TRIGGERS:

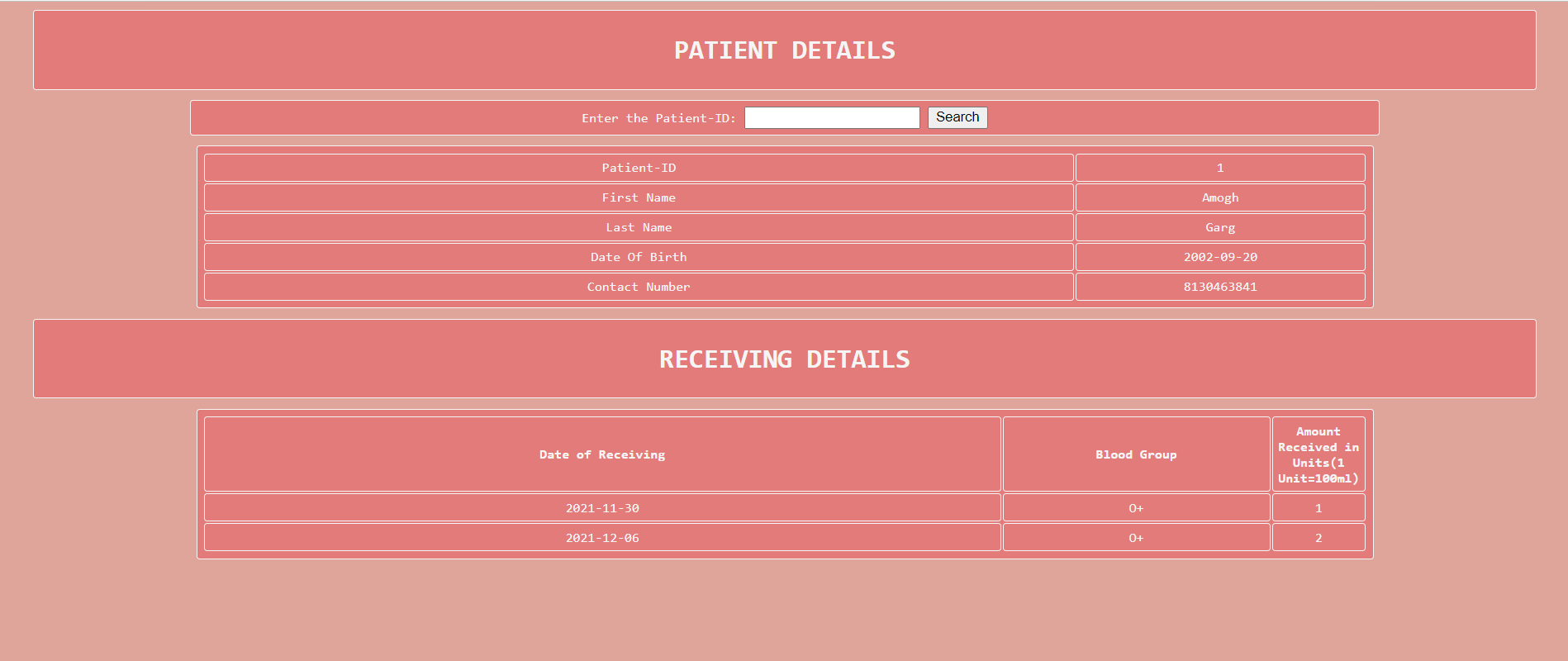
TABLE DONOR: Primary key is Donor\_ID.  
TABLE DONATED\_BLOOD: Donor\_ID is the Foreign-Key in this table.  
TABLE BLOOD\_STOCK: Blood\_Group is the Primary-Key.  
TABLE PATIENT: Patient\_ID is the Primary-Key.  
TABLE RECEIVED\_BLOOD: Patient\_ID is the Foreign-Key in this table.

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



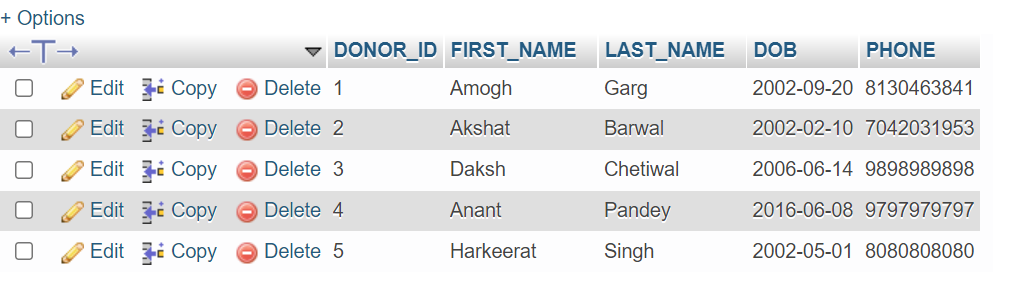
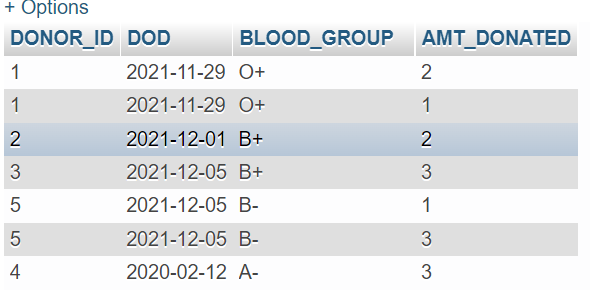
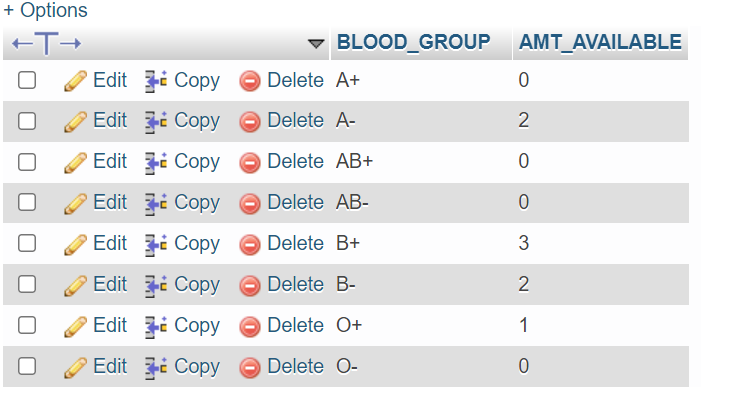
FUNCTIONALITIES: 

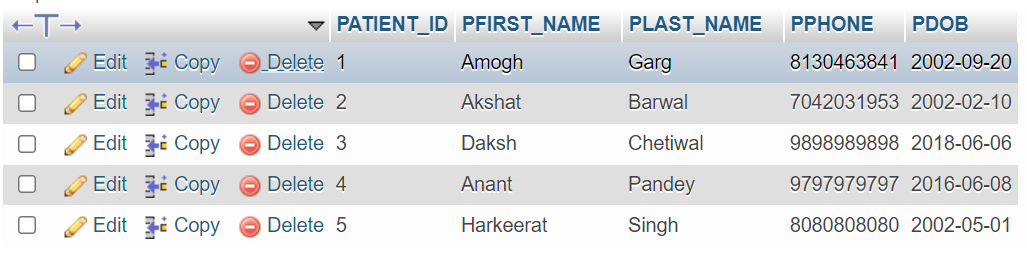
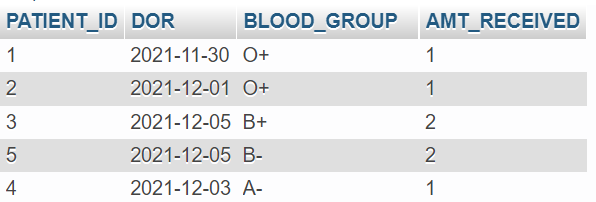
  

# TABLE DATA:

DONOR:

  
DONATED\_BLOOD:  
   
BLOOD\_STOCK:   
PATIENT:

  
RECEIVED\_BLOOD: 

# LINK OF ENTIRE CODE AND DEMO VIDEO OF THE APPLICATION:

<https://drive.google.com/drive/folders/15OltIl3bKvFficvweMsMZQaGziXuiG74?usp=sharing>