Visvesvaraya Technological University
Belagavi-590 018, Karnataka

A Mini Project Report on

"BLOOD BANK ORGANISATION DATABASE"

Mini Project Report submitted in partial fulfilment of the requirement for the DBMS Laboratory with Mini Project [18CSL58]

Bachelor of Engineering
in
Computer Science and Engineering

Submitted by

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Tataguni, Bengaluru-560082

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Department of Computer Science and Engineering

CERTIFICATE

Certified that the mini project work entitled **"BLOOD BANK ORGANISATION DATABASE"** carried out by **Sthuthi S [1JT19CS120] , Laharishree S [1JT19CS119] and Tejaswini N [1JT19CS096]** bonafide students of Jyothy Institute of Technology, in partial fulfilment for the award of **Bachelor of Engineering** in **Computer Science and Engineering** department of the **Visvesvaraya Technological University, Belagavi** during the year **2019-2020**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

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Professor & HOD
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External Viva Examiner

1.
2.

Signature with Date :

ACKNOWLEDGEMENT

Firstly, we are very grateful to this esteemed institution **"Jyothy Institute of Technology**" for providing us an opportunity to complete our project.

We express our sincere thanks to our **Principal Dr. Gopalakrishna K** for providing us with adequate facilities to undertake this project.

We would like to thank **Dr. Prabhanjan S, Professor and Head of Computer Science** and Engineering Department for providing for his valuable support.

We would like to thank our guides **Mrs.Nikitha S, Assistant Professor** for their keen interest and guidance in preparing this work.

Finally, we would thank all our friends who have helped us directly or indirectly in this project.

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Laharishree S[1JT19CS119]
Tejaswini N[1JT19CS096]

ABSTRACT

The application is designed to make the existing system more reliable, fast and easy for all, provides a methodical way of managing large databases. For this application we used the backend as SQL to store the data which is used in the application and for the user interface we have used JAVA.

Blood Bank Organization System is a database application designed to automate the different operations in Blood Bank Organisation. Blood Bank Organization System project makes it easy to give information regarding blood type, date of donation of blood, available blood group and many more. After the implementation of the project, the blood searching process is expected to be faster, easier, and reliable. Admin will view the donor side and view the available blood requested by the users.

Any update in the database like availability of blood, last donation date of the donor, blood bank details be made by the admin.

TABLE OF CONTENTS

CHAPTER 1
INTRODUCTION

1. INTRODUCTION

1.1 Introduction to DBMS

A database is simply an organized collection of related data, typically stored on disk, and accessible by many concurrent users, it is a logically coherent collection of data with some inherent meaning, representing some aspect of real world and which is designed, built and populated with data for a specific purpose.

Databases are managed by a Database Management System(DBMS) which is a collection of programs that enables user to create and maintain a database.

Advantages of DBMS:

Redundancy is controlled.

Unauthorized access is restricted.

Providing multiple user interfaces.

Enforcing integrity constraints.

Providing backup and recovery.

1.2 Introduction to SQL

Structured Query Language (SQL), is a language used to request data from a database which includes database creation, deletion, retrieval of required tables and even manipulation of data held in a relational database management system.

SQL is considered as a Non-Procedural or a High level language in which the expected result or operation is given without the specific details about how to accomplish the task. So, SQL is a declarative language.

Therefore, SQL is designed at a higher conceptual level of operation than procedural languages as procedural languages includes only the information about opening and closing tables, loading and searching indexes, or flushing buffers and writing data to file systems, but the lower level logical and physical operations are not specified in SQL.

1.3 Introduction to blood bank organization Database

The main goal of the BLOOD BANK ORGANISATION is to manage blood bank data, blood availability, donor data and agency details.

It monitors all the blood transaction and retrieves data of the blood bank, donor, hospital and patient details.

The project's aim is to develop an application system to minimize the manual work for blood bank, donor, blood group management. It monitors all the blood availability information, donor list, patient list.

1.4 Scope and importance of work

The scope of the project is to give a simple application to overcome the drawbacks of the normal file processing system.

The main purpose of this project is to create database application for blood bank organization, this system can be used to check the availability of the blood.

This database avoids accumulating blood from individuals who might not be eligible due to health issues and from individuals whose last donated date is less than three months.

It maintains records of the blood bank associated to the organization, hospitals, patients, donors and it maintains efficiency in the database. It prevents redundancy in the data.

The system helps to identify the nearest blood bank location and allows us to contact them.

The functional areas of application that lies under this system are the management of the availability of donors, hospitals, blood banks under the organization at any time.

This database system allows each individual to be recognized with unique id say donor id, blood bank id, hospital id, patient id.

CHAPTER 2
DESIGN

Theory of ER Diagram

The Entity–Relationship model (ER model) describes the structure of a database with the help of a diagram, which is known as **Entity Relationship Diagram (ER Diagram)**

An **Entity Relationship Diagram (ERD)** shows the relationships of entity sets stored in adatabase. An entity in this context is an object, a component of data.
An entity set is a collection of similar entities. These entities can have attributes that defineits properties. By defining the entities, their attributes, and showing the relationships between them, an ER diagram illustrates the logical structure of database.

ER diagrams are used to sketch out the design of a database.

ENTITIES

An entity is an 'object' in the real world with an independent existence and an entity type defines a collection (or set) of entities that have the same attributes. Each entity type in thedatabase is described by its name and attributes.

An entity type is represented in ER diagrams as a rectangular box enclosing the entity typename.

RELATIONSHIPS

A relationship among two or more entities represents an association among the entities and whenever an attribute of one entity refers to another entity, there exists a relationship between the two entities.

In a relationship, a foreign key of one table refers the primary key of the other table and it is represented by diamond shape in ER diagram.

ATTRIBUTES

An attribute represents some property of interest that further describes an entity and the column header of the table shows the attributes. Each attribute in a table has a certain domain which allows it to accept a certain ‘set of values’ only.

The attribute values, of each entity, will define its characteristics in the table and is represented by oval in the ER diagram.

ER DIAGRAM

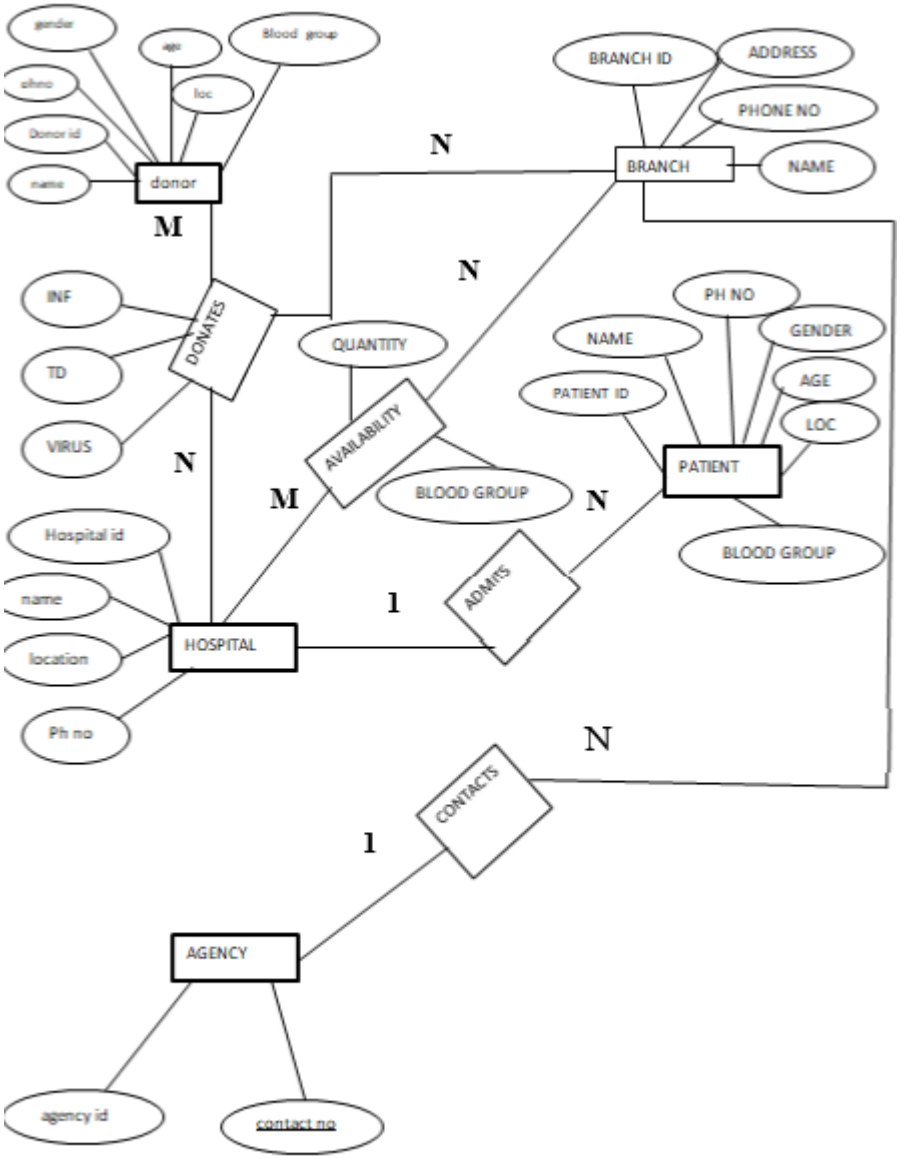


Figure 2.1: ER Diagram for the database

SCHEMA DIAGRAM

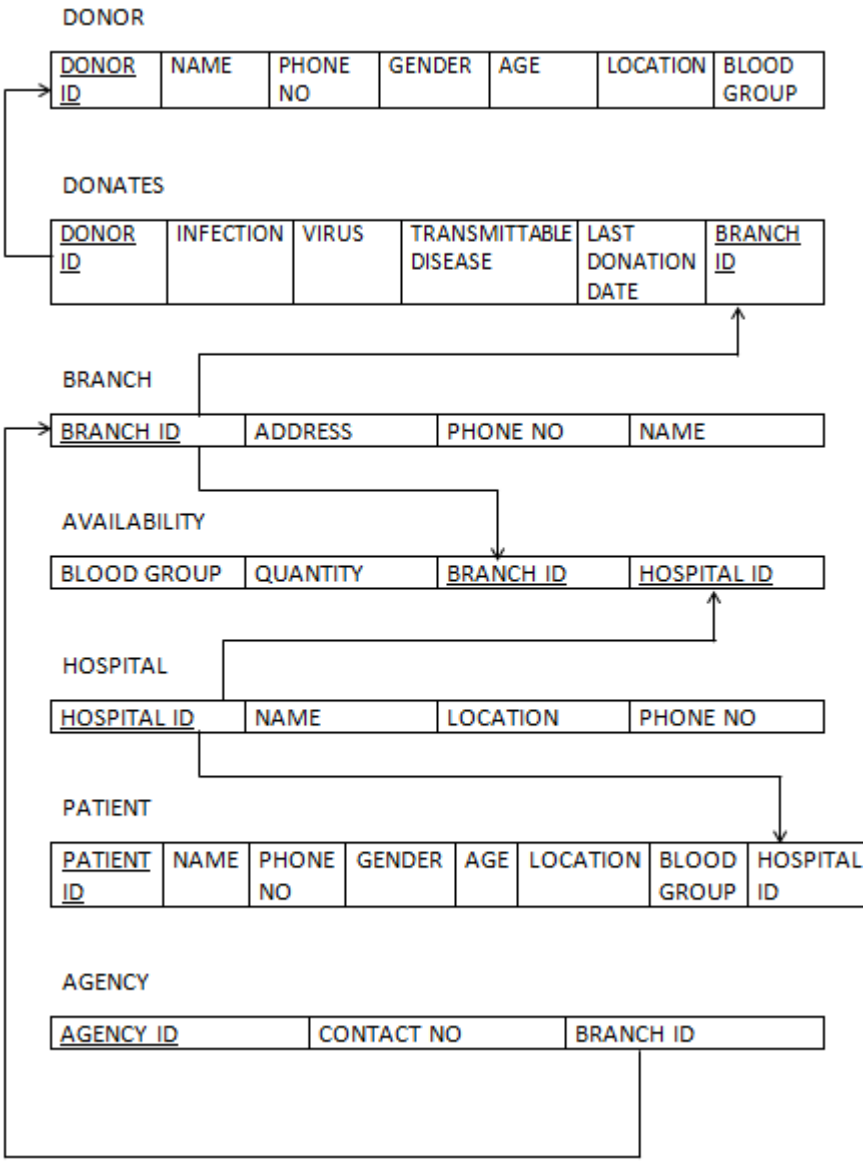


Figure 2.2: Schema Diagram

LIST OF TABLES

CHAPTER 3
IMPLEMENTATION

Create table commands:-

CREATE TABLE DONOR(DONOR_ID INT PRIMARY KEY,NAME VARCHAR(20),PH_NO VARCHAR(20),GENDER VARCHAR(2),AGE INT,LOCATION VARCHAR(20),BLOOD_GROUP VARCHAR(20));

CREATE TABLE DONATES(DONOR_ID INT PRIMARY KEY,INFECTION VARCHAR(20),VIRUS VARCHAR(20),TRANSMITTABLE_DISEASE VARCHAR(20),LAST_DONATED DATE, FOREIGN KEY(DONOR_ID) REFERENCE DONOR(DONOR_ID) ON DELETE CASCADE);

CREATE TABLE BRANCH(BRANCH_ID INT PRIMARY KEY,ADDRESS VARCHAR(20),CONTACT VARCHAR(20),NAME VARCHAR(20));

CREATE TABLE HOSPITAL(HOSPITAL_ID INT PRIMARY KEY,NAME VARCHAR(20),LOCATION VARCHAR(20),PHONE_NO VARCHAR(20));

CREATE TABLE AVAILABILITY(BLOOD_GROUP VARCHAR(20),QUANTITY INT,BRANCH_ID INT PRIMARY KEY,HOSPITAL_ID INT VARCHAR(20) PRIMARY KEY,FOREIGN KEY(BRANCH_ID) REFERENCES BRANCH(BRANCH_ID) ON DELETE CASCADE, FOREIGN KEY(HOSPITAL_ID) REFERENCES HOSPITAL(HOSPITAL_ID) ON DELETE CASCADE);

CREATE TABLE PATIENT(PATIENT_ID INT PRIMARY KEY,NAME VARCHAR(20),PHONE NO VARCHAR(20),GENDER VARCHAR(20),AGE INT,LOCATION VARCHAR(20),BLOOD_GROUP VARCHAR(20),HOSPITAL_ID INT,FOREIGN KEY(HOSPITAL_ID) REFERENCES HOSPITAL(HOSPITAL_ID) ON DELETE CASCADE);

CREATE TABLE AGENCY(AGENCY_ID INT PRIMARY KEY,CONTACT_NO VARCHAR(20),BRANCH_ID INT, FOREIGN KEY(BRANCH_ID) REFERENCES BRANCH(BRANCH_ID) ON DELETE CASCADE);

Insertion tables values

Insertion of HOSPITAL table

INSERT INTO HOSPITAL VALUES(5001,"JAIN HOSPITAL","BANGALORE SOUTH","080-47091543");
INSERT INTO HOSPITAL VALUES(5002,"MANIPAL HOSPITAL","BANGALORE NORTH","080-56478943");
INSERT INTO HOSPITAL VALUES(5003,"APOLLO HOSPITAL","BANGALORE SOUTH","080-472431543");
INSERT INTO HOSPITAL VALUES(5004,"FORTIS HOSPITAL","BANGALORE EAST","080-23491543");

Insertion of AGENCY table

INSERT INTO AGENCY("56001","08082822433","JEEVA VOLUNTERY");
INSERT INTO AGENCY("56002","08074652343","RASHTRATHANA");
INSERT INTO AGENCY("56001","08095849309","SMILE FOUNDATION");

Insertion of AVAILABILITY table

INSERT INTO AVAILABILITY VALUES("O-VE","2L",1001,"5001");
INSERT INTO AVAILABILITY VALUES("O+VE","75ML",1001,"5001");
INSERT INTO AVAILABILITY VALUES("AB-VE","1L",1001,"5001");

Insertion of DONOR table

INSERT INTO DONOR VALUES(1001,"SAMEER",9723456790","B-VE","BANGALORE","MALE",20,1003);
INSERT INTO DONOR VALUES(1002,"PAVAN","9916718112","B-VE","BANGALORE","MALE",20,1003);
INSERT INTO DONOR VALUES(1001,"MANASA",9008433503","B-VE","BANGALORE",20,1003);

Insertion of DONATES table

INSERT INTO DONATES VALUES(1001,1001,"NO","NO","NO","2020-12-12");
INSERT INTO DONATES VALUES(1002,1001,"NO","NO","NO","2020-12-12");
INSERT INTO DONATES VALUES(1003,1001,"NO","NO","NO","2020-12-12");

Insertion of PATIENT table

INSERT INTO PATIENT VALUES(1001,"JHON",987654321","MALE","BANGALORE","AB-VE",5001);

INSERT INTO PATIENT VALUES(1002,"JAME",987623456","MALE","BANGALORE","B-VE",5001);

INSERT INTO PATIENT VALUES (1001,”RAJ”,9876512345”,”MALE”,”BANGALORE”,”A+VE”,5001);

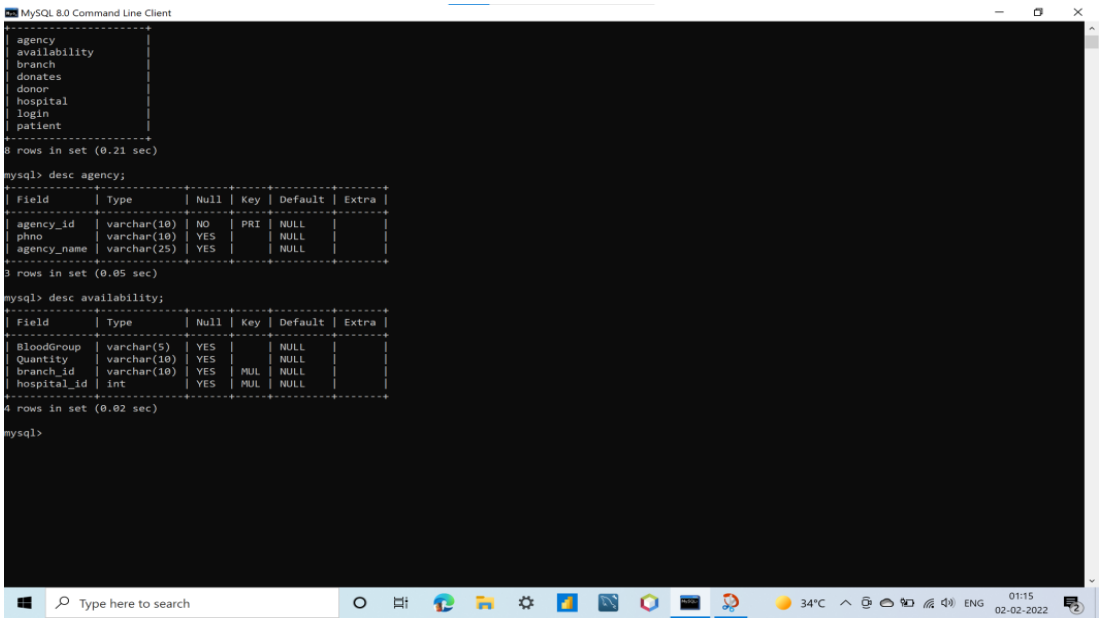
Insertion of BRANCH table

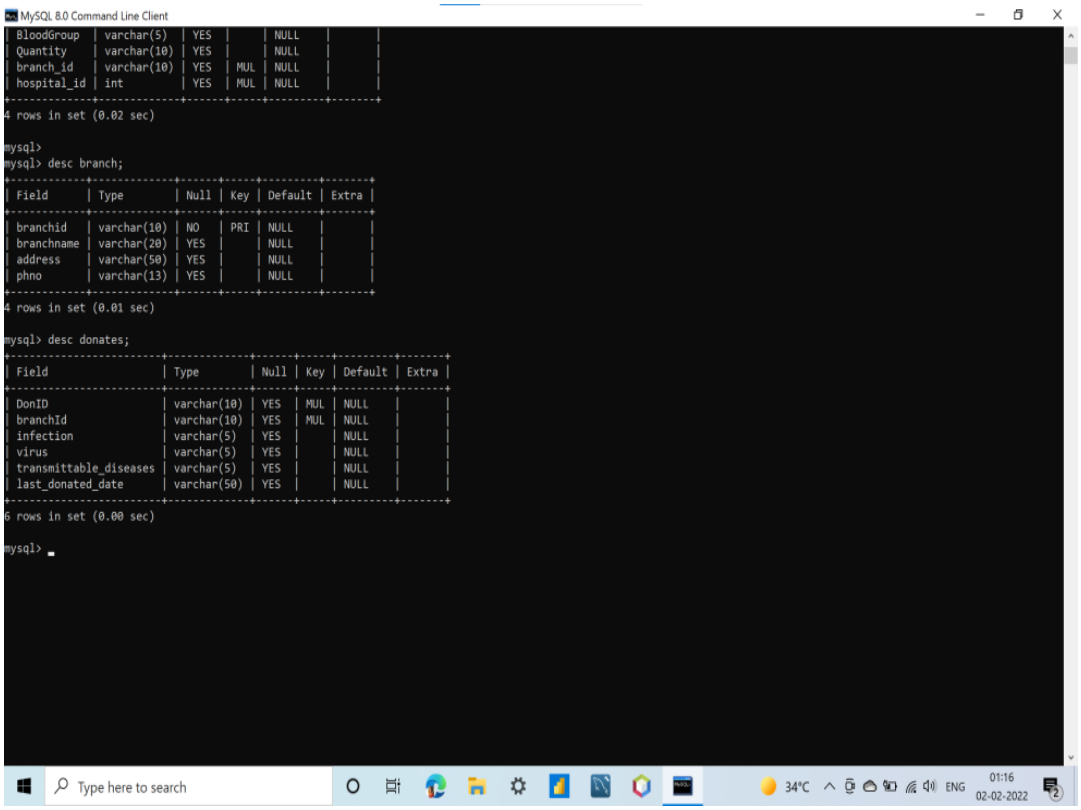
INSERT INTO BRANCH VALUES(1001,”SAHANA BLOOD BANK”,”BANGALORE”,”9807564213”);

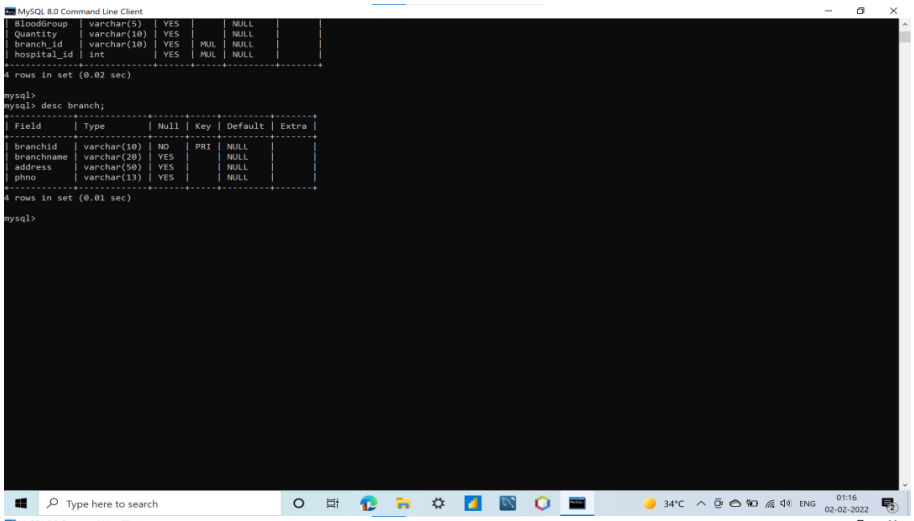
INSERT INTO BRANCH VALUES(1002,”LION`S BLOOD BANK”,”BANGALORE”,”9901155344”);

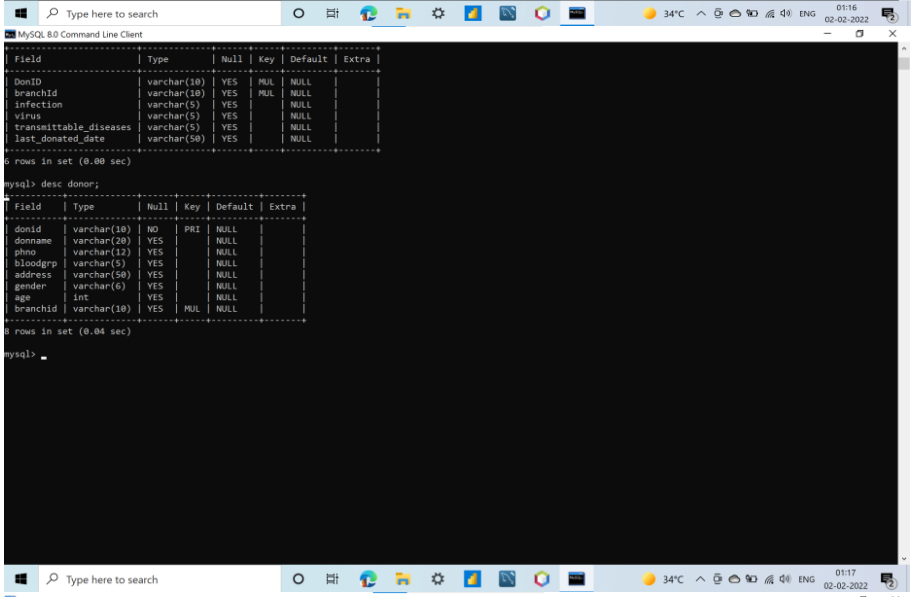
INSERT INTO BRANCH VALUES(1003,”LIFE CARE BLOOD BANK”,”BANGALORE”,”9807645890”);

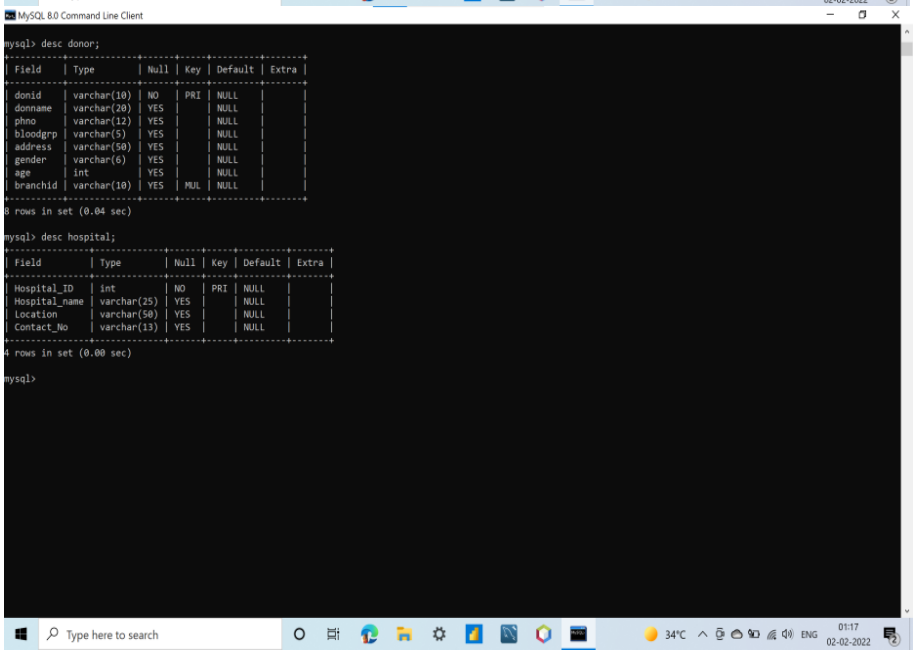
DESCRIPTION OF TABLES

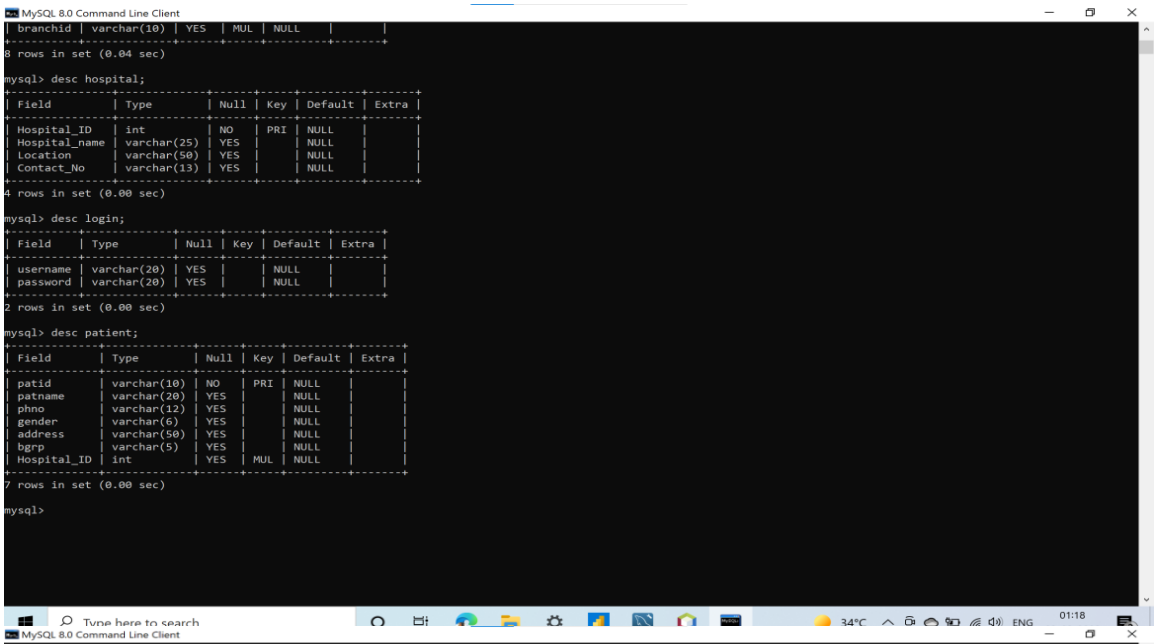


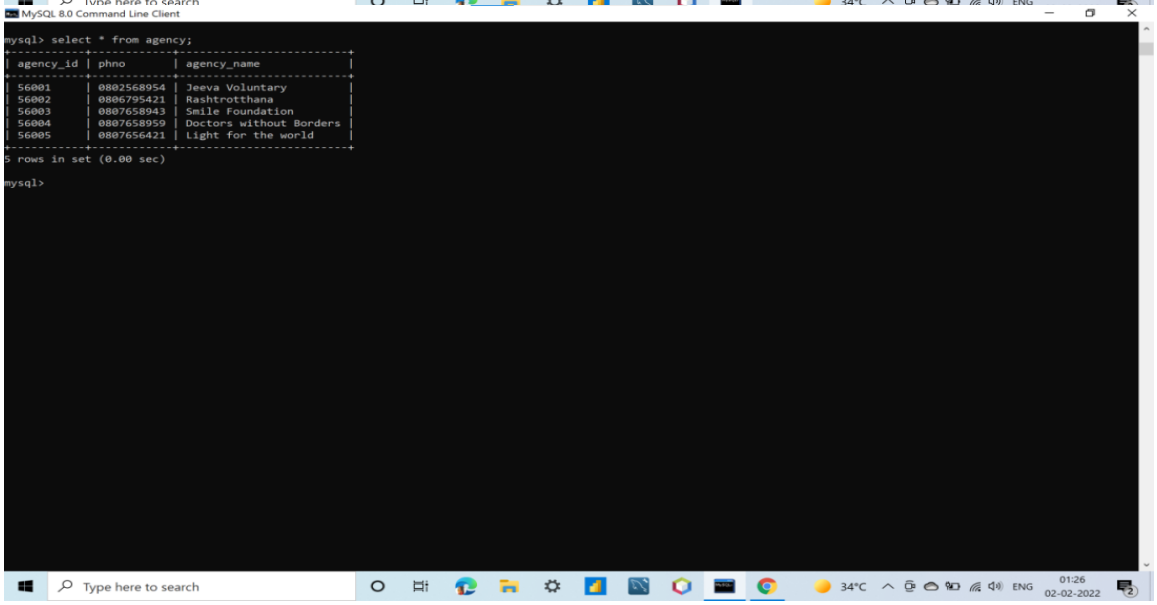



MySQL 8.0 Command Line Client
BloodGroup	varchar(5)	YES		NULL	
Quantity	varchar(10)	YES		NULL	
branch_id	varchar(10)	YES	MUL	NULL	
hospital_id	int	YES	MUL	NULL	
4 rows in set (0.02 sec)
mysql>
mysql> desc branch;
Field	Type	Null	Key	Default	Extra
branchid	varchar(10)	NO	PRI	NULL	
branchname	varchar(20)	YES		NULL	
address	varchar(50)	YES		NULL	
phno	varchar(13)	YES		NULL	
4 rows in set (0.01 sec)
mysql>
Type here to search
34°C
ENG
01:16
02-02-2022


MySQL 8.0 Command Line Client
Field	Type	Null	Key	Default	Extra
DonID	varchar(10)	YES	MUL	NULL	
branchid	varchar(10)	YES	MUL	NULL	
infection	varchar(5)	YES		NULL	
virus	varchar(5)	YES		NULL	
transmittable_diseases	varchar(5)	YES		NULL	
last_donated_date	varchar(50)	YES		NULL	
6 rows in set (0.00 sec)
mysql> desc donor;
Field	Type	Null	Key	Default	Extra
donid	varchar(10)	NO	PRI	NULL	
donname	varchar(20)	YES		NULL	
phno	varchar(12)	YES		NULL	
bloodgrp	varchar(5)	YES		NULL	
address	varchar(50)	YES		NULL	
gender	varchar(6)	YES		NULL	
age	int	YES		NULL	
branchid	varchar(10)	YES	MUL	NULL	
8 rows in set (0.04 sec)
mysql>
Type here to search
34°C
ENG
01:17
02-02-2022


MySQL 8.0 Command Line Client
mysql> desc donor;
Field	Type	Null	Key	Default	Extra
donid	varchar(10)	NO	PRI	NULL	
donname	varchar(20)	YES		NULL	
phno	varchar(12)	YES		NULL	
bloodgrp	varchar(5)	YES		NULL	
address	varchar(50)	YES		NULL	
gender	varchar(6)	YES		NULL	
age	int	YES		NULL	
branchid	varchar(10)	YES	MUL	NULL	
8 rows in set (0.04 sec)
mysql> desc hospital;
Field	Type	Null	Key	Default	Extra
Hospital_ID	int	NO	PRI	NULL	
Hospital_name	varchar(25)	YES		NULL	
Location	varchar(50)	YES		NULL	
Contact_No	varchar(13)	YES		NULL	
4 rows in set (0.00 sec)
mysql>
Type here to search
34°C
ENG
01:17
02-02-2022


MySQL 8.0 Command Line Client
| branchid | varchar(10) | YES | MUL | NULL | |
8 rows in set (0.04 sec)
mysql> desc hospital;
Field	Type	Null	Key	Default	Extra
Hospital_ID	int	NO	PRI	NULL	
Hospital_name	varchar(25)	YES		NULL	
Location	varchar(50)	YES		NULL	
Contact_No	varchar(13)	YES		NULL	
4 rows in set (0.00 sec)
mysql> desc login;
Field	Type	Null	Key	Default	Extra
username	varchar(20)	YES		NULL	
password	varchar(20)	YES		NULL	
2 rows in set (0.00 sec)
mysql> desc patient;
Field	Type	Null	Key	Default	Extra
patid	varchar(10)	NO	PRI	NULL	
patname	varchar(20)	YES		NULL	
phno	varchar(12)	YES		NULL	
gender	varchar(6)	YES		NULL	
address	varchar(50)	YES		NULL	
bgrp	varchar(5)	YES		NULL	
Hospital_ID	int	YES	MUL	NULL	
7 rows in set (0.00 sec)
mysql>
Type here to search
34°C
ENG
01:18


MySQL 8.0 Command Line Client
mysql> select * from agency;
agency_id	phno	agency_name
S6001	0802568954	Jeeva Voluntary
S6002	0806795421	Rashtrotthana
S6003	0807658943	Smile Foundation
S6004	0807658959	Doctors without Borders
S6005	0807656421	Light for the world
5 rows in set (0.00 sec)
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34°C
ENG
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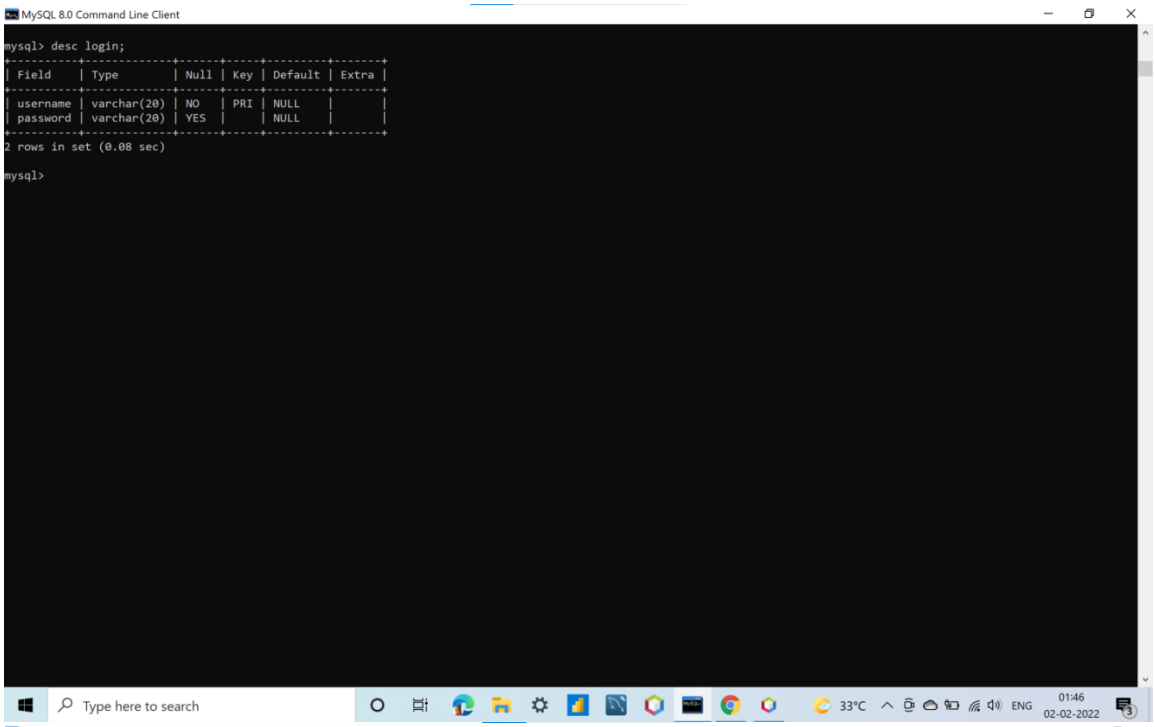
02-02-2022


MySQL 8.0 Command Line Client
mysql> desc login;
+----------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| username | varchar(20) | NO | PRI | NULL | |
| password | varchar(20) | YES | | NULL | |
+----------+-------------+------+-----+---------+-------+
2 rows in set (0.08 sec)
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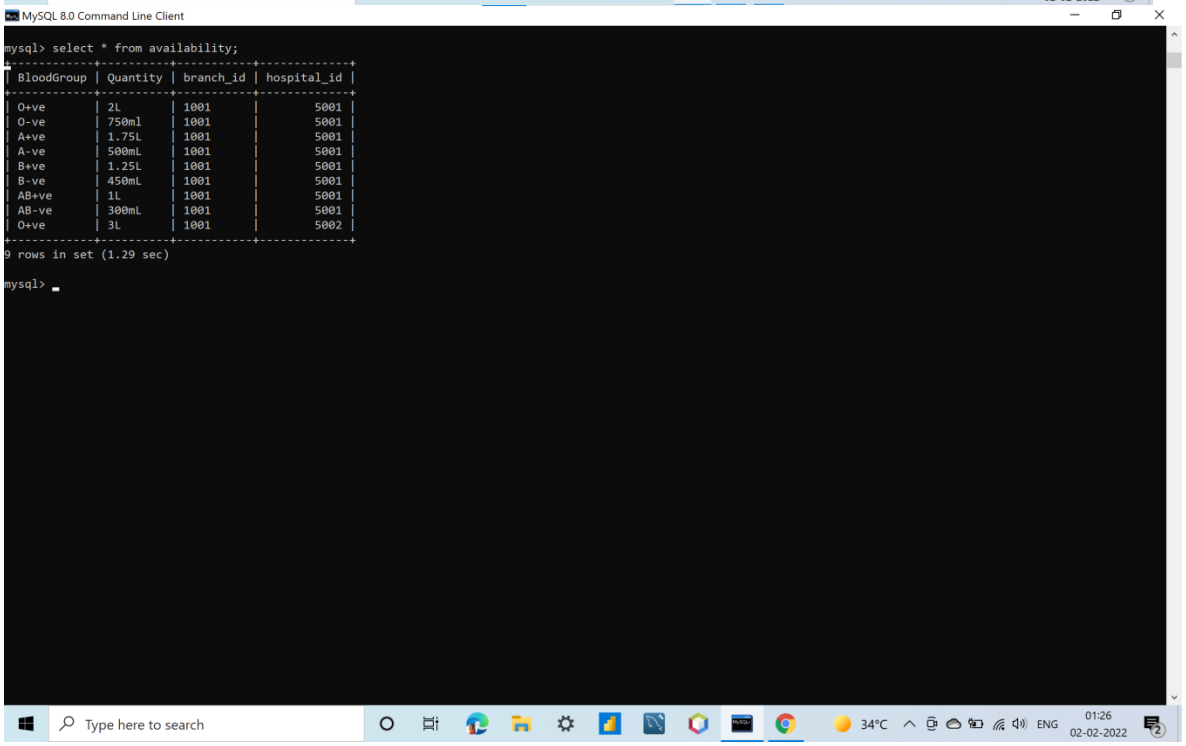
ENG
01:46
02-02-2022


MySQL 8.0 Command Line Client
mysql> select * from availability;
+------------+----------+-----------+-------------+
| BloodGroup | Quantity | branch_id | hospital_id |
+------------+----------+-----------+-------------+
O+ve	2L	1001	5001
O-ve	750ml	1001	5001
A+ve	1.75L	1001	5001
A-ve	500mL	1001	5001
B+ve	1.25L	1001	5001
B-ve	450mL	1001	5001
AB+ve	1L	1001	5001
AB-ve	300mL	1001	5001
O+ve	3L	1001	5002
+------------+----------+-----------+-------------+
9 rows in set (1.29 sec)
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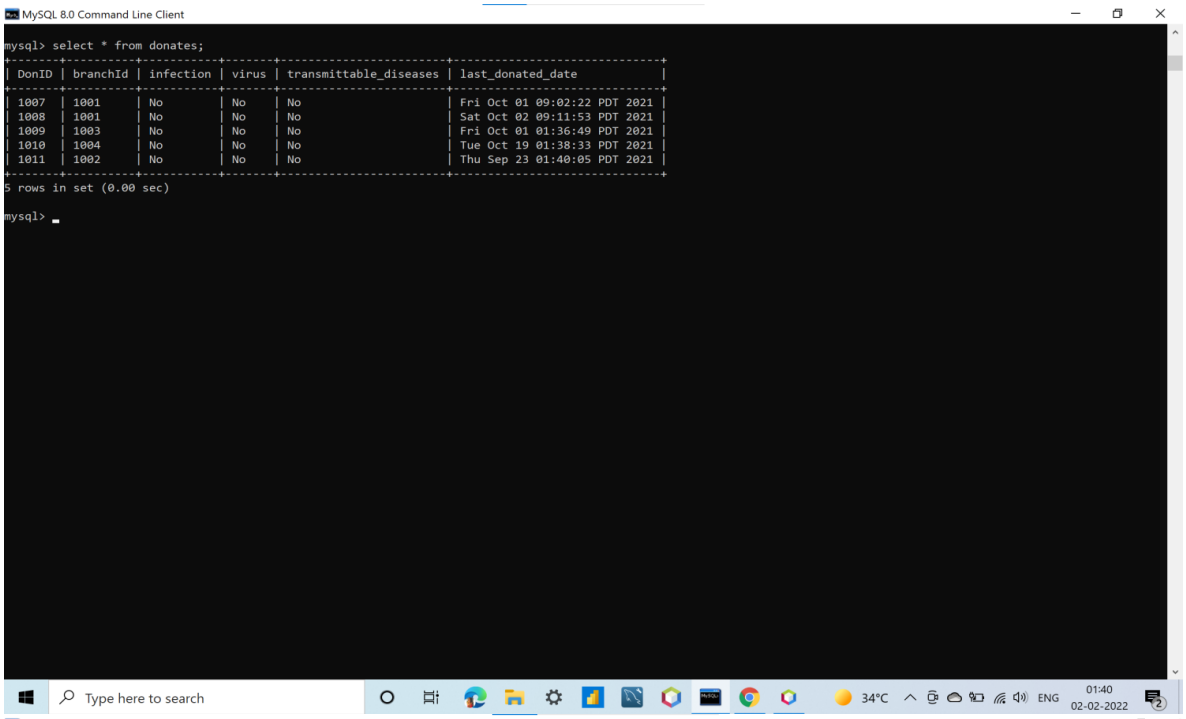
ENG
01:26
02-02-2022


MySQL 8.0 Command Line Client
mysql> select * from donates;
DonID	branchId	infection	virus	transmittable_diseases	last_donated_date
1007	1001	No	No	No	Fri Oct 01 09:02:22 PDT 2021
1008	1001	No	No	No	Sat Oct 02 09:11:53 PDT 2021
1009	1003	No	No	No	Fri Oct 01 01:36:49 PDT 2021
1010	1004	No	No	No	Tue Oct 19 01:38:33 PDT 2021
1011	1002	No	No	No	Thu Sep 23 01:40:05 PDT 2021
5 rows in set (0.00 sec)
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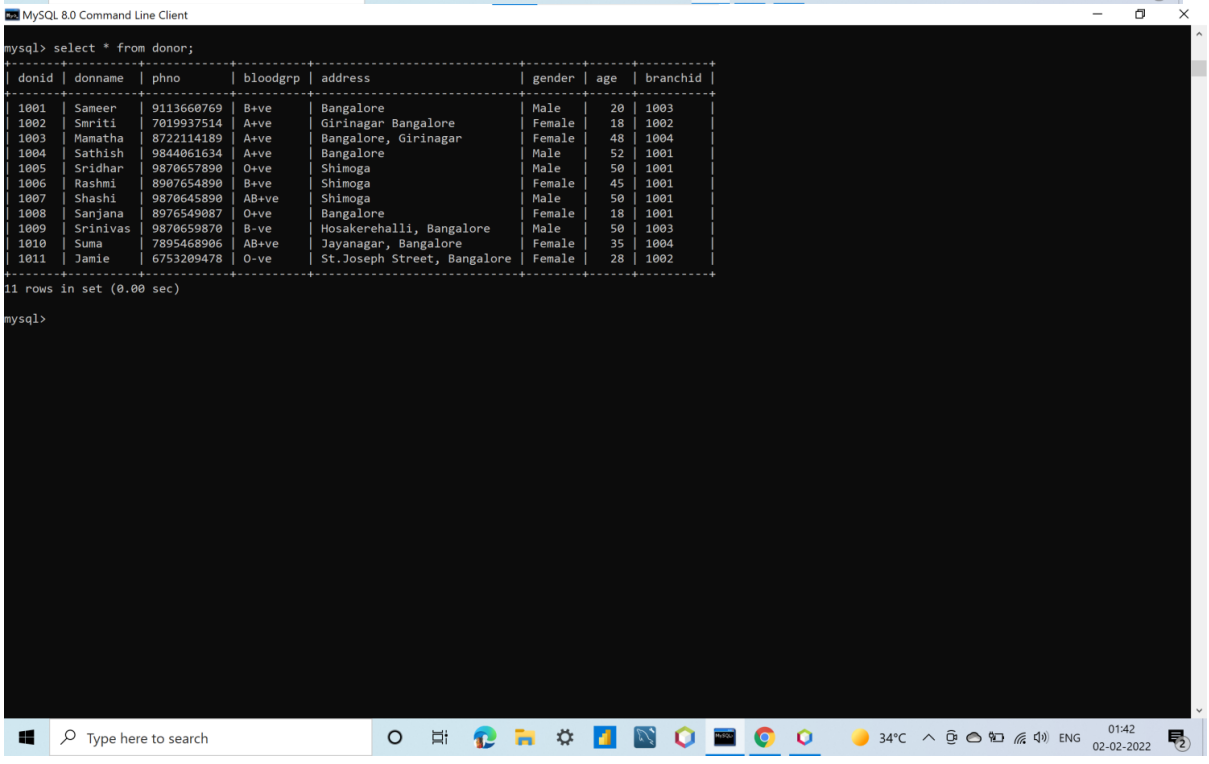
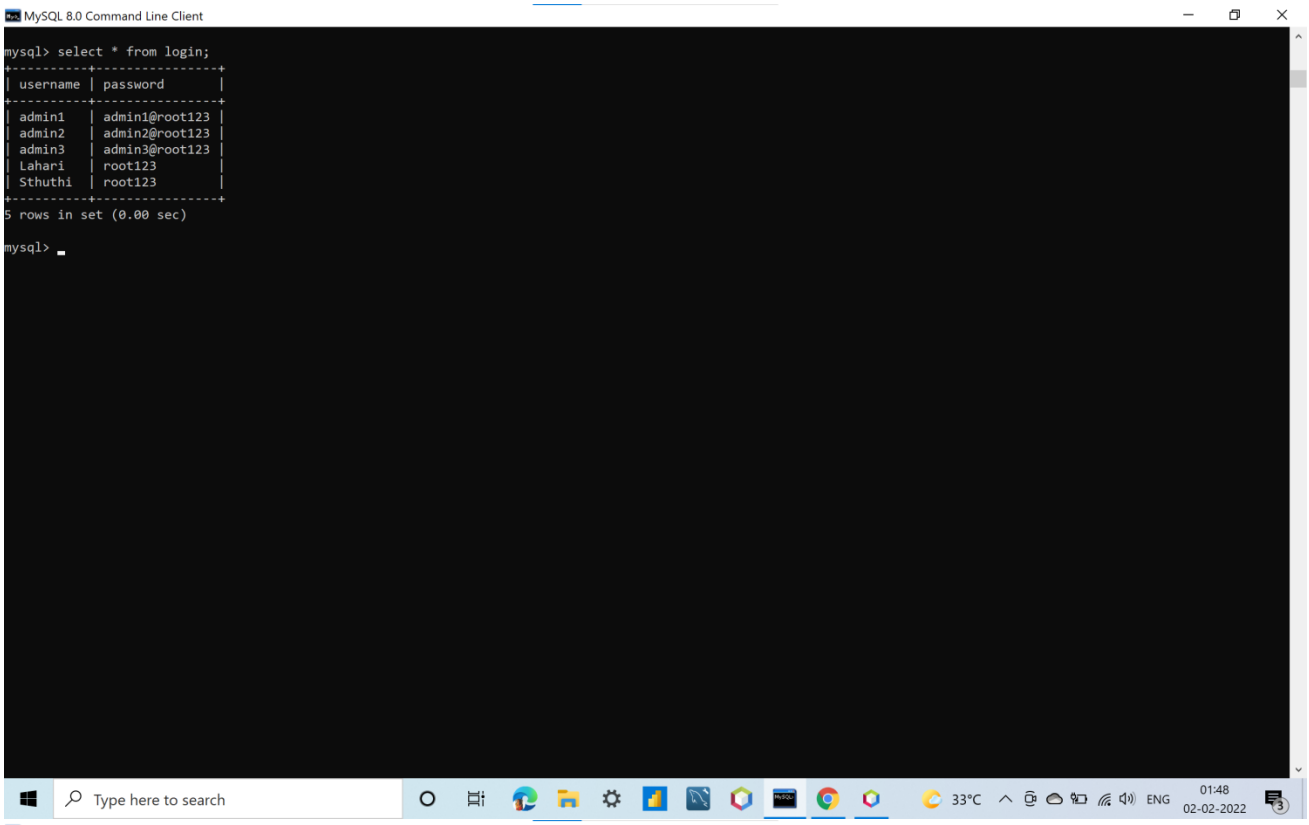
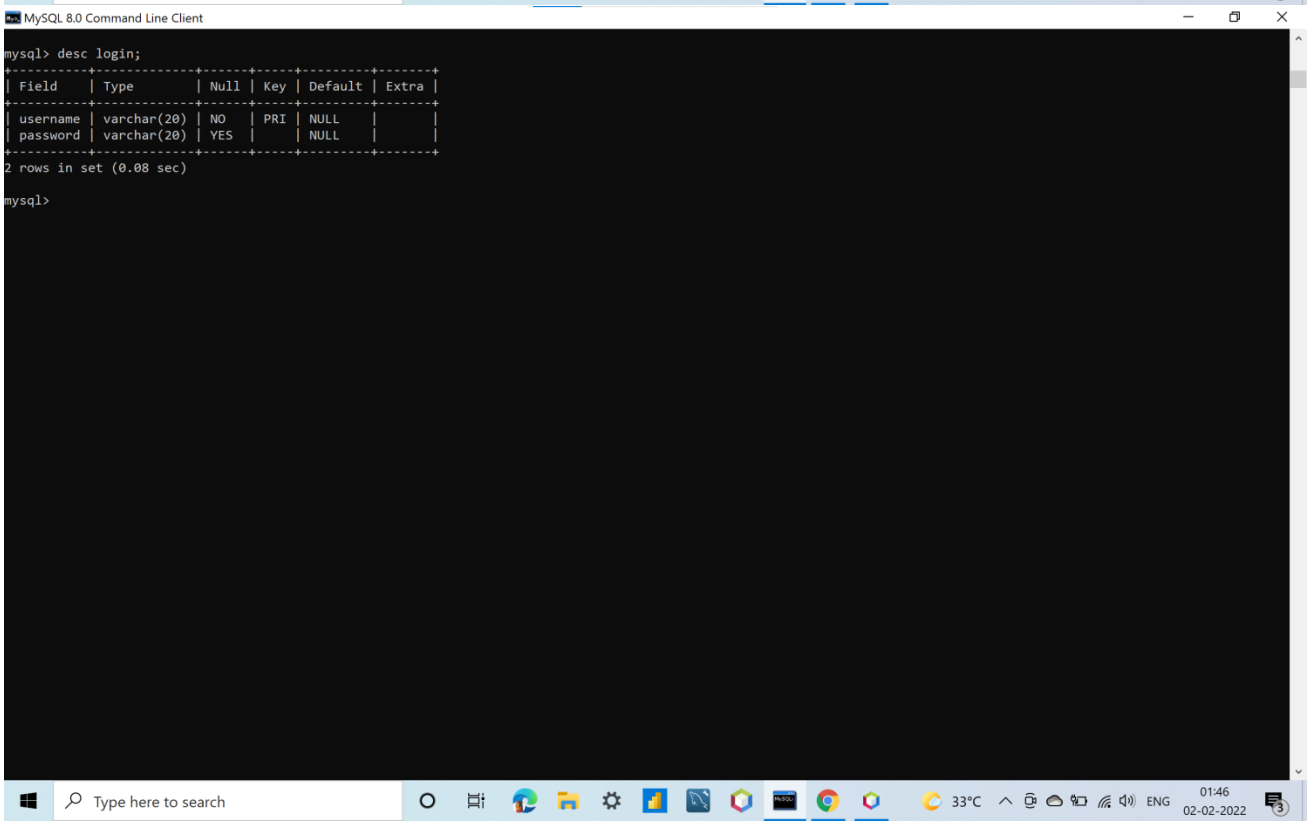
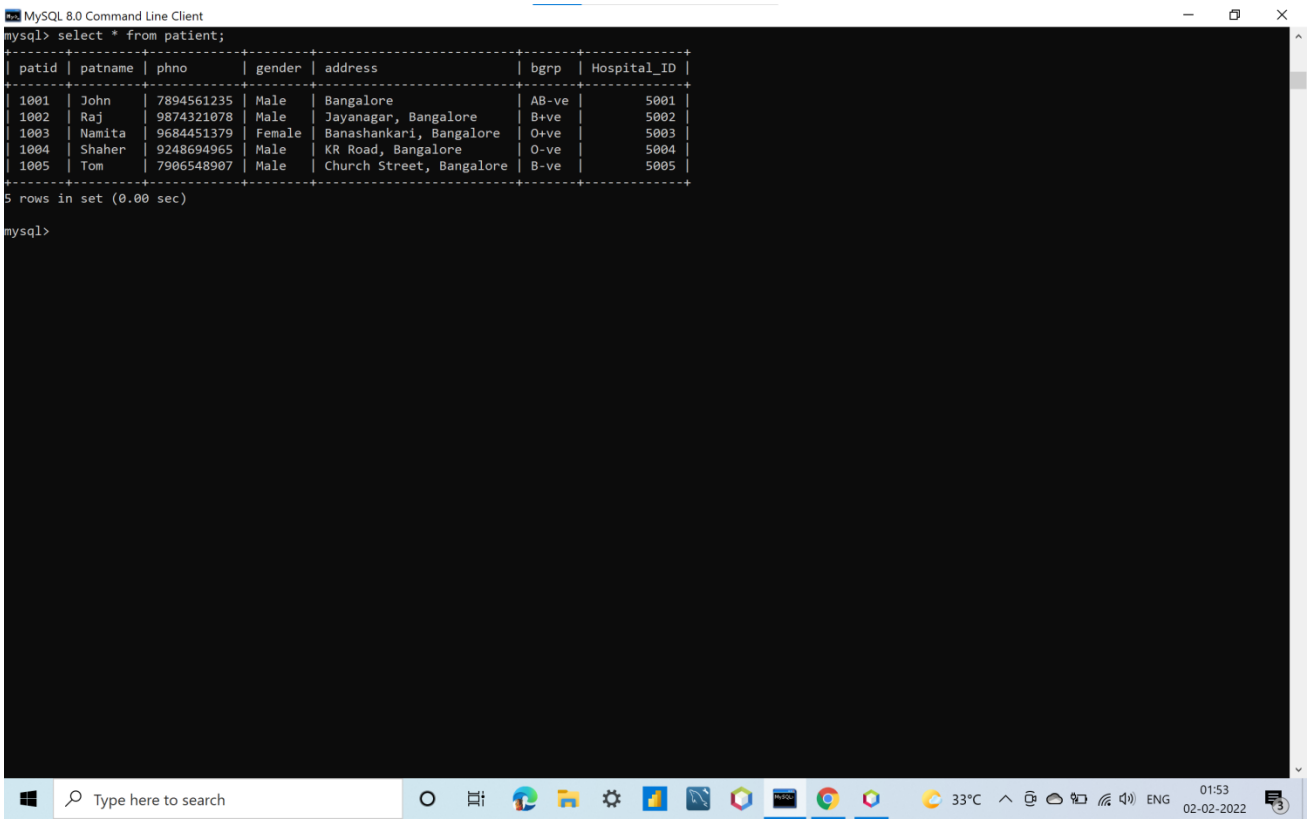
Type here to search
34°C
ENG
01:40
02-02-2022


MySQL 8.0 Command Line Client
mysql> select * from donor;
donid	donname	phno	bloodgrp	address	gender	age	branchid
1001	Sameer	9113660769	B+ve	Bangalore	Male	20	1003
1002	Smriti	7019937514	A+ve	Girinagar Bangalore	Female	18	1002
1003	Mamatha	8722114189	A+ve	Bangalore, Girinagar	Female	48	1004
1004	Sathish	9844061634	A+ve	Bangalore	Male	52	1001
1005	Sridhar	9870657890	O+ve	Shimoga	Male	50	1001
1006	Rashmi	8907654890	B+ve	Shimoga	Female	45	1001
1007	Shashi	9870645890	AB+ve	Shimoga	Male	50	1001
1008	Sanjana	8976549087	O+ve	Bangalore	Female	18	1001
1009	Srinivas	9870659870	B-ve	Hosakerehalli, Bangalore	Male	50	1003
1010	Suma	7895468906	AB+ve	Jayanagar, Bangalore	Female	35	1004
1011	Jamie	6753209478	O-ve	St.Joseph Street, Bangalore	Female	28	1002
11 rows in set (0.00 sec)
mysql>
Type here to search
34°C
ENG
01:42
02-02-2022


MySQL 8.0 Command Line Client
mysql> select * from login;
+----------+----------------+
| username | password |
+----------+----------------+
admin1	admin1@root123
admin2	admin2@root123
admin3	admin3@root123
Lahari	root123
Sthuthi	root123
+----------+----------------+
5 rows in set (0.00 sec)
mysql>
Type here to search
33°C
ENG
01:48
02-02-2022


MySQL 8.0 Command Line Client
mysql> desc login;
+----------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| username | varchar(20) | NO | PRI | NULL | |
| password | varchar(20) | YES | | NULL | |
+----------+-------------+------+-----+---------+-------+
2 rows in set (0.08 sec)
mysql>
Type here to search
33°C
ENG
01:46
02-02-2022


MySQL 8.0 Command Line Client
mysql> select * from patient;
+-------+---------+------------+--------+-------------------------+-------+-------------+
| patid | patname | phno | gender | address | bgrp | Hospital_ID |
+-------+---------+------------+--------+-------------------------+-------+-------------+
1001	John	7894561235	Male	Bangalore	AB-ve	5001
1002	Raj	9874321078	Male	Jayanagar, Bangalore	B+ve	5002
1003	Namita	9684451379	Female	Banashankari, Bangalore	O+ve	5003
1004	Shaher	9248694965	Male	KR Road, Bangalore	O-ve	5004
1005	Tom	7906548907	Male	Church Street, Bangalore	B-ve	5005
+-------+---------+------------+--------+-------------------------+-------+-------------+
5 rows in set (0.00 sec)
mysql>
Type here to search
33°C
ENG
01:53
02-02-2022

GUI implementation

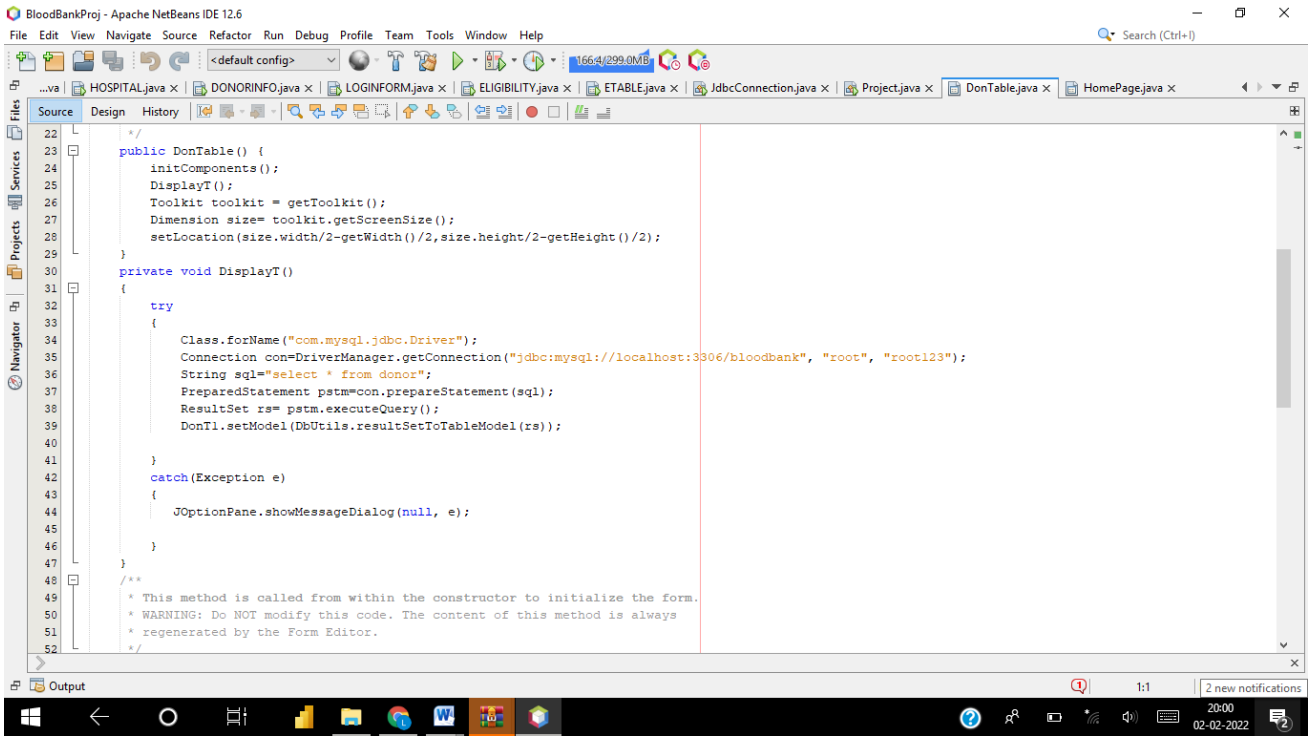


Figure 3.1: SELECTING DONOR TABLE

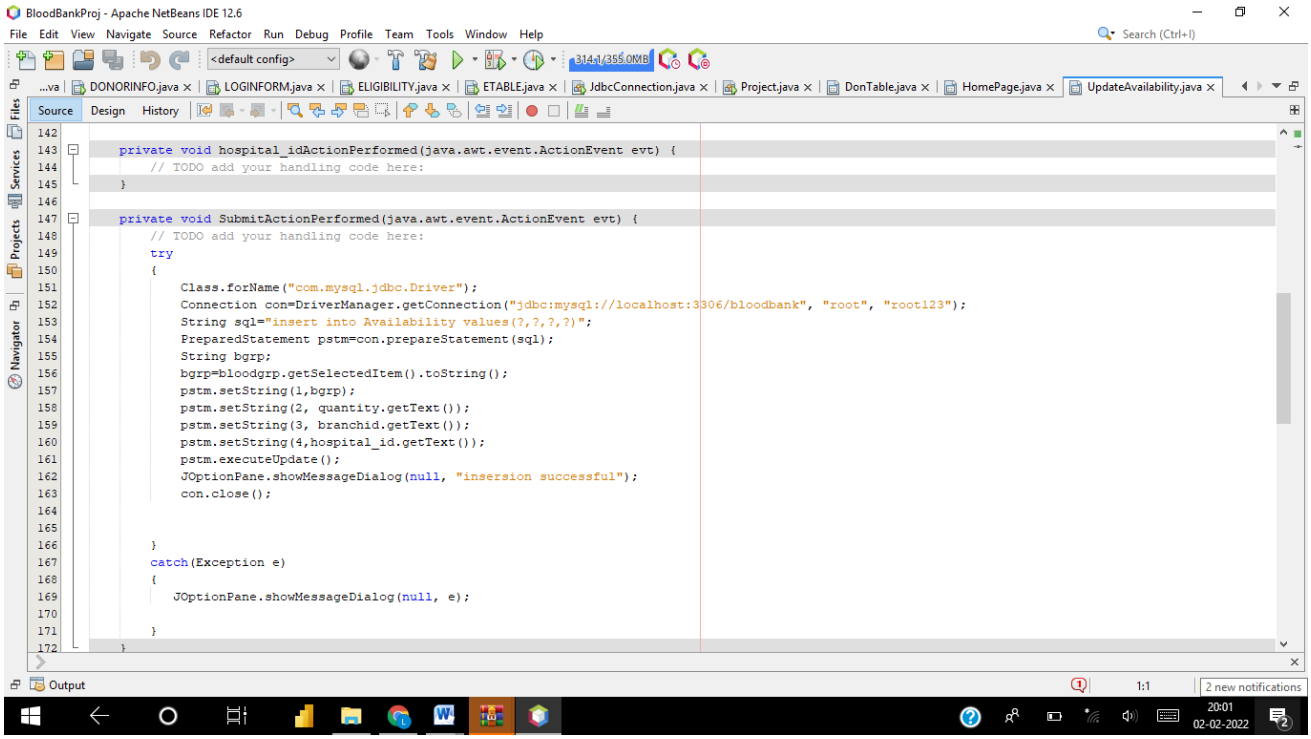


Figure 3.2: INSERTING INTO AVAILABILTY TABLE

CHAPTER 4
RESULTS AND SNAPSHOTS

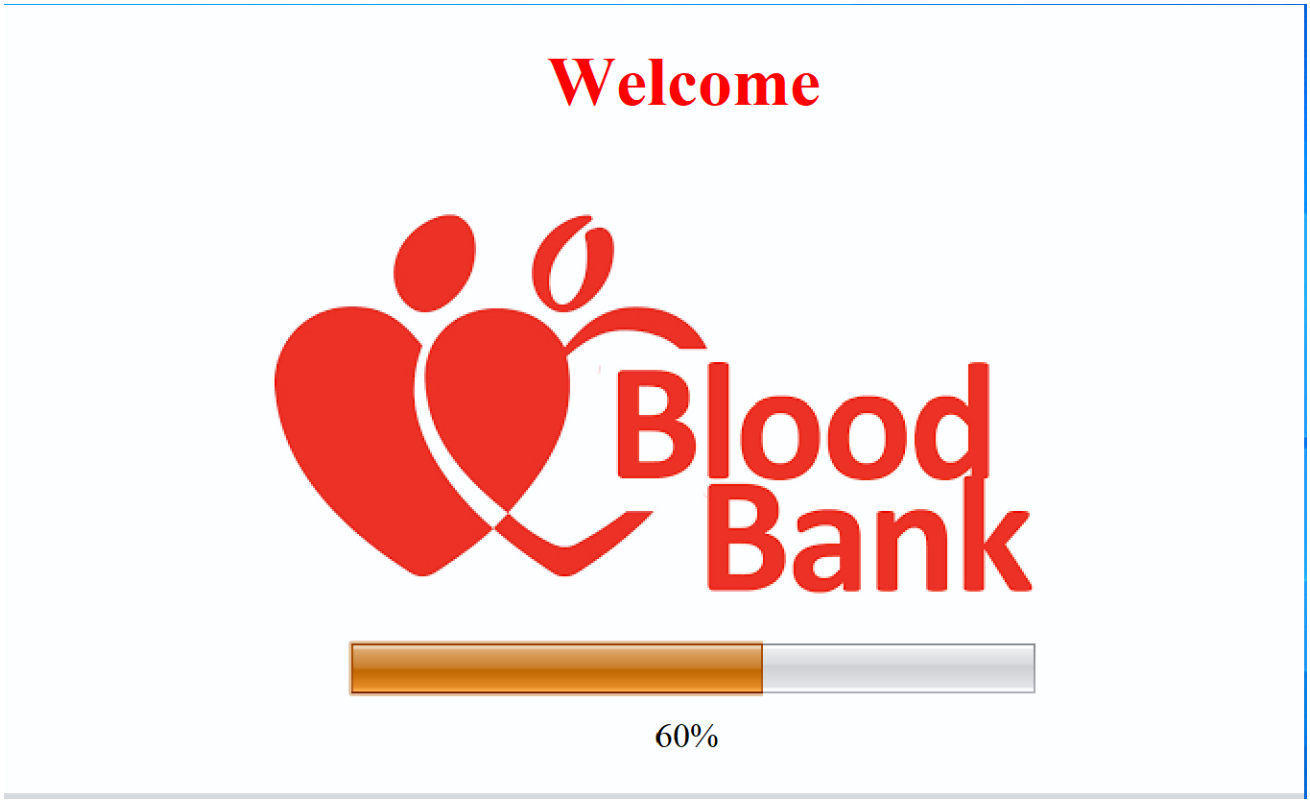


Figure 4.1: LOADING PAGE

Figure 4.2: LOGIN PAGE

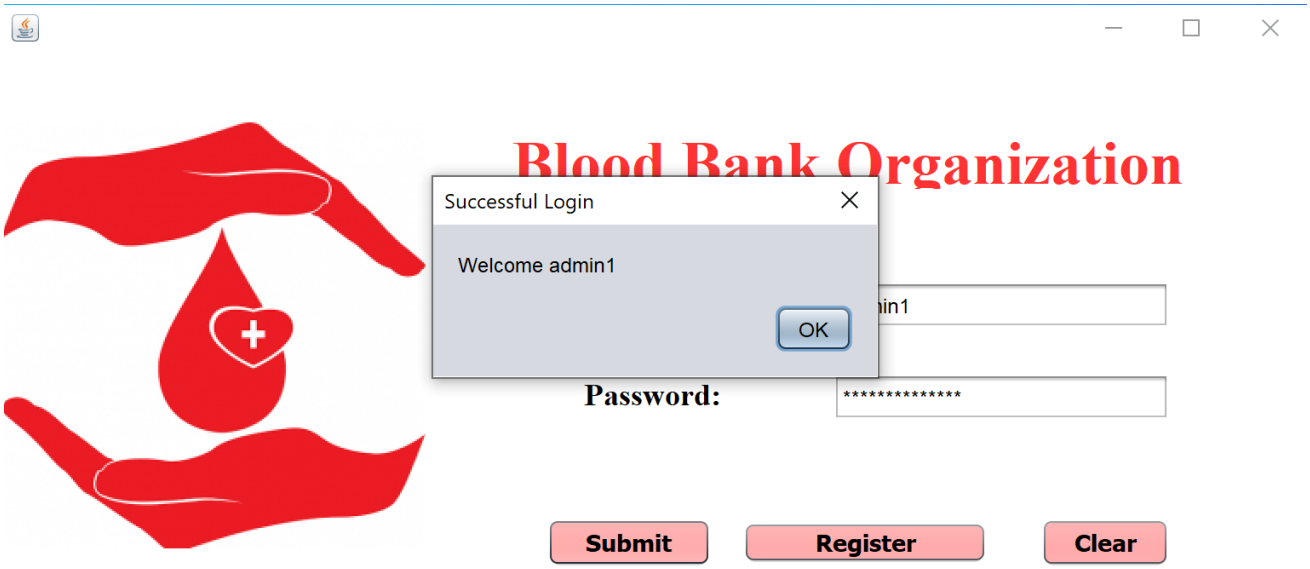


Figure 4.3: SUCCESSFUL LOGIN MESSAGE

Figure 4.4: MENU DISPLAY [HOME PAGE]

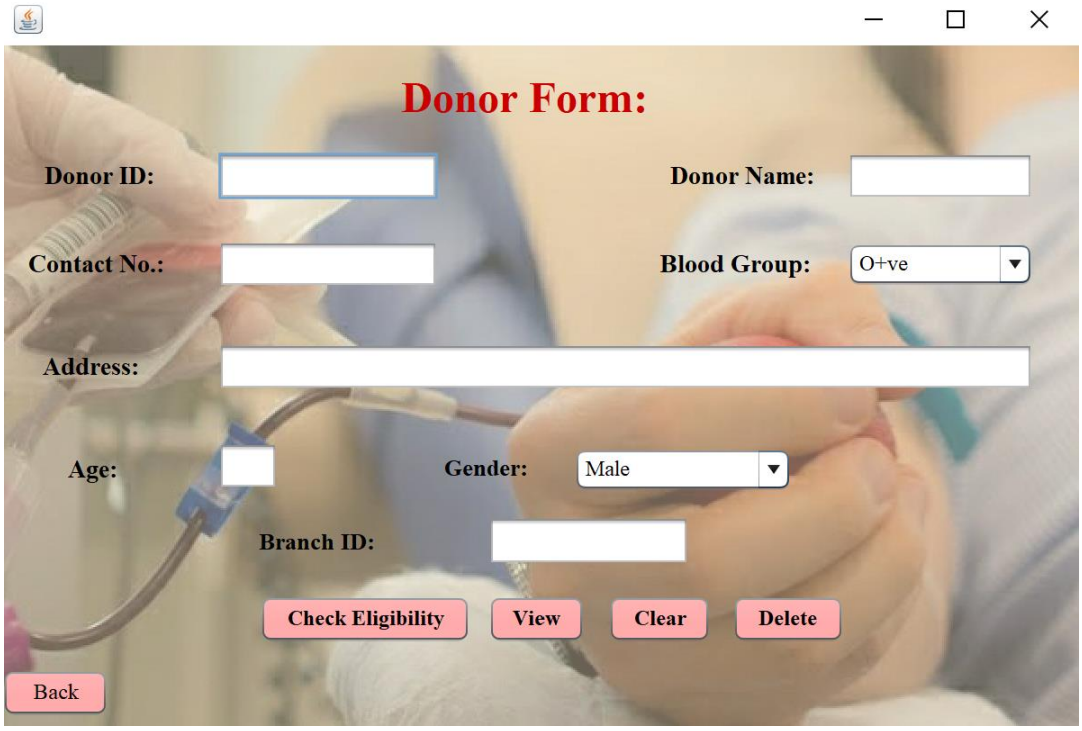


Figure 4.5: DONOR FORM

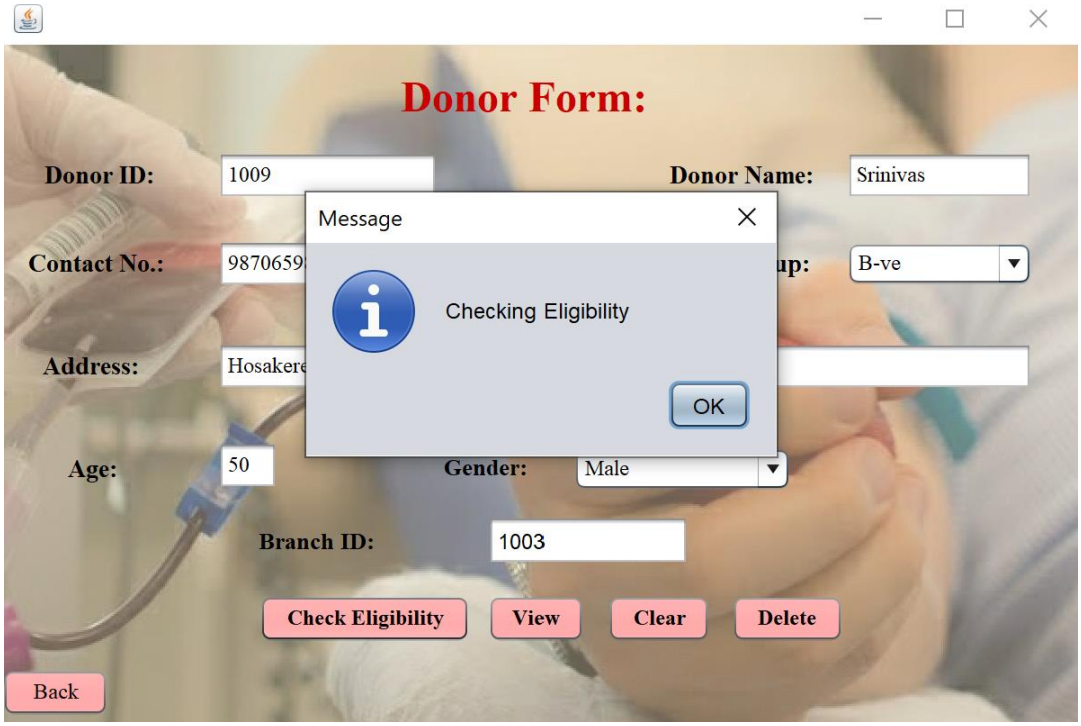


Figure 4.6: FILLING DETAILS AND CHECKING FOR ELIGIBILITY

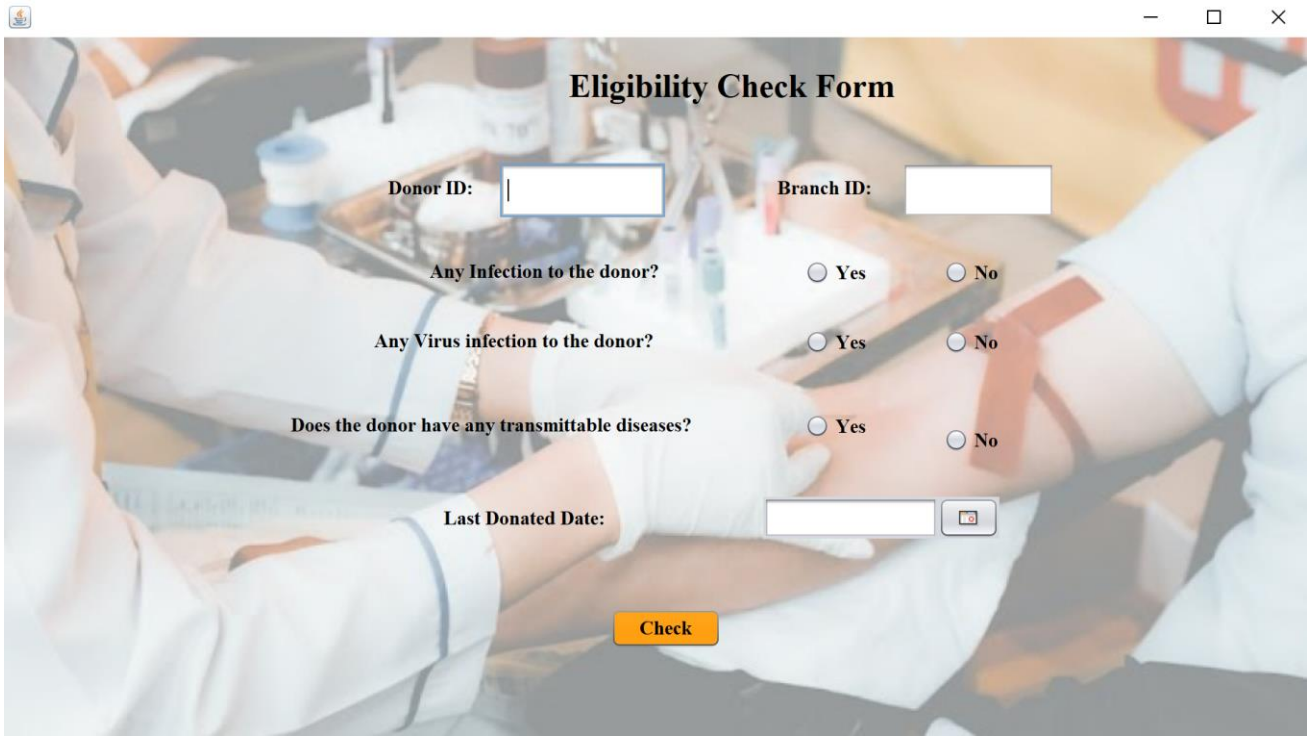


Figure 4.7: ELIGIBILTY FORM

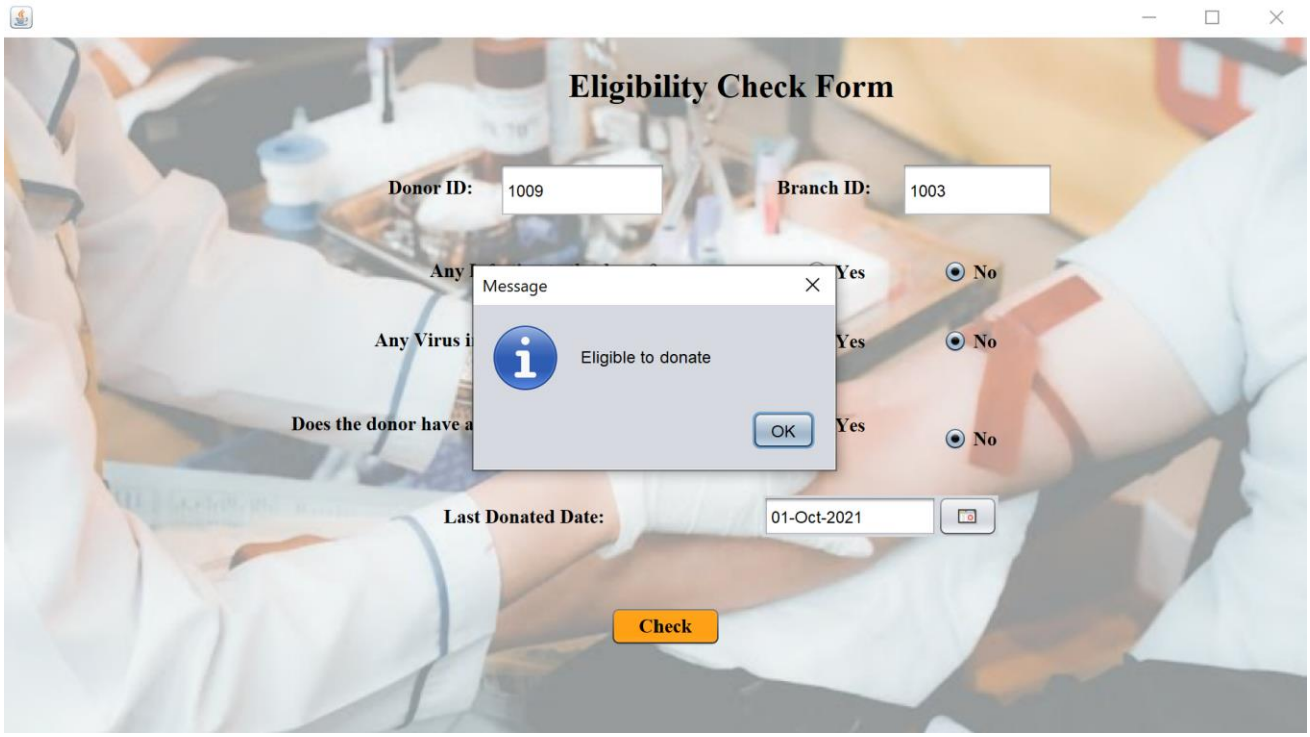


Figure 4.8: FILLING THE ELIGIBILTY FORM

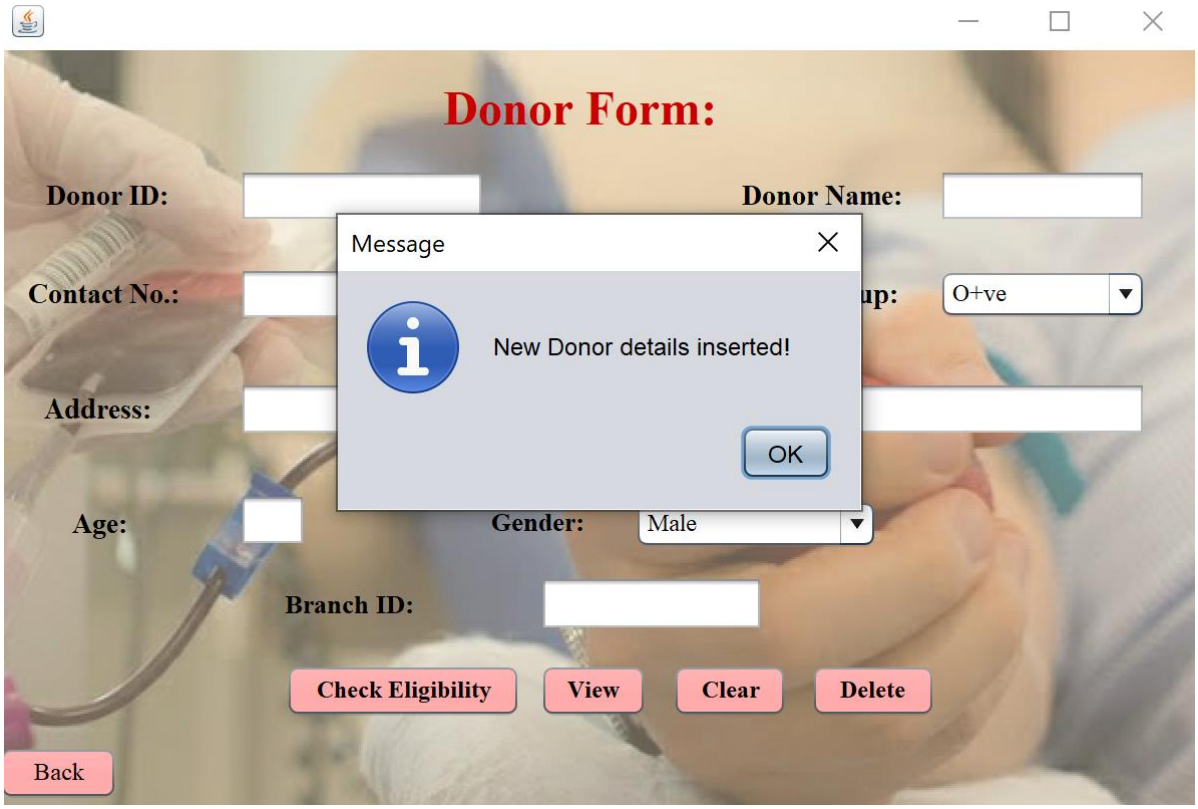


Figure 4.9: SUCCESSFUL INSERTION MESSAGE

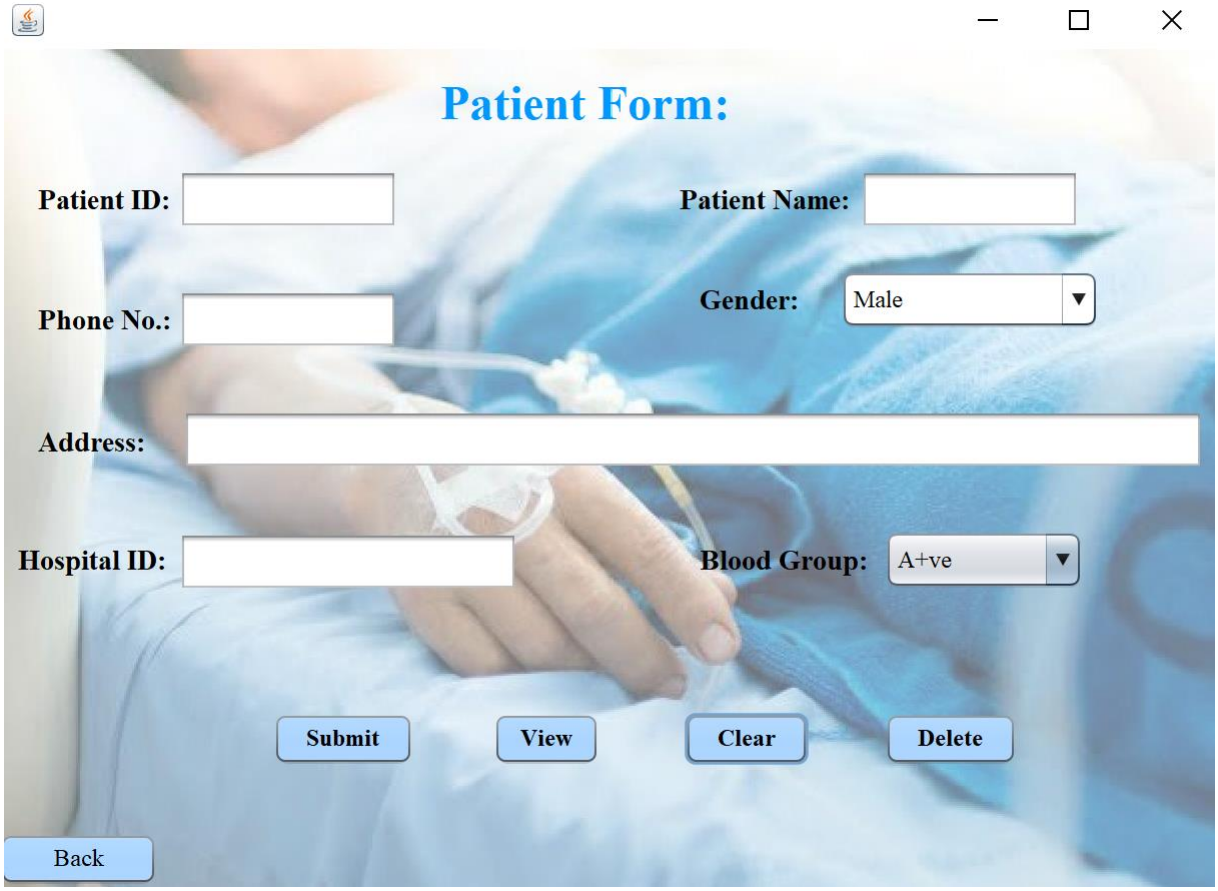


Figure 4.10: PATIENT FORM

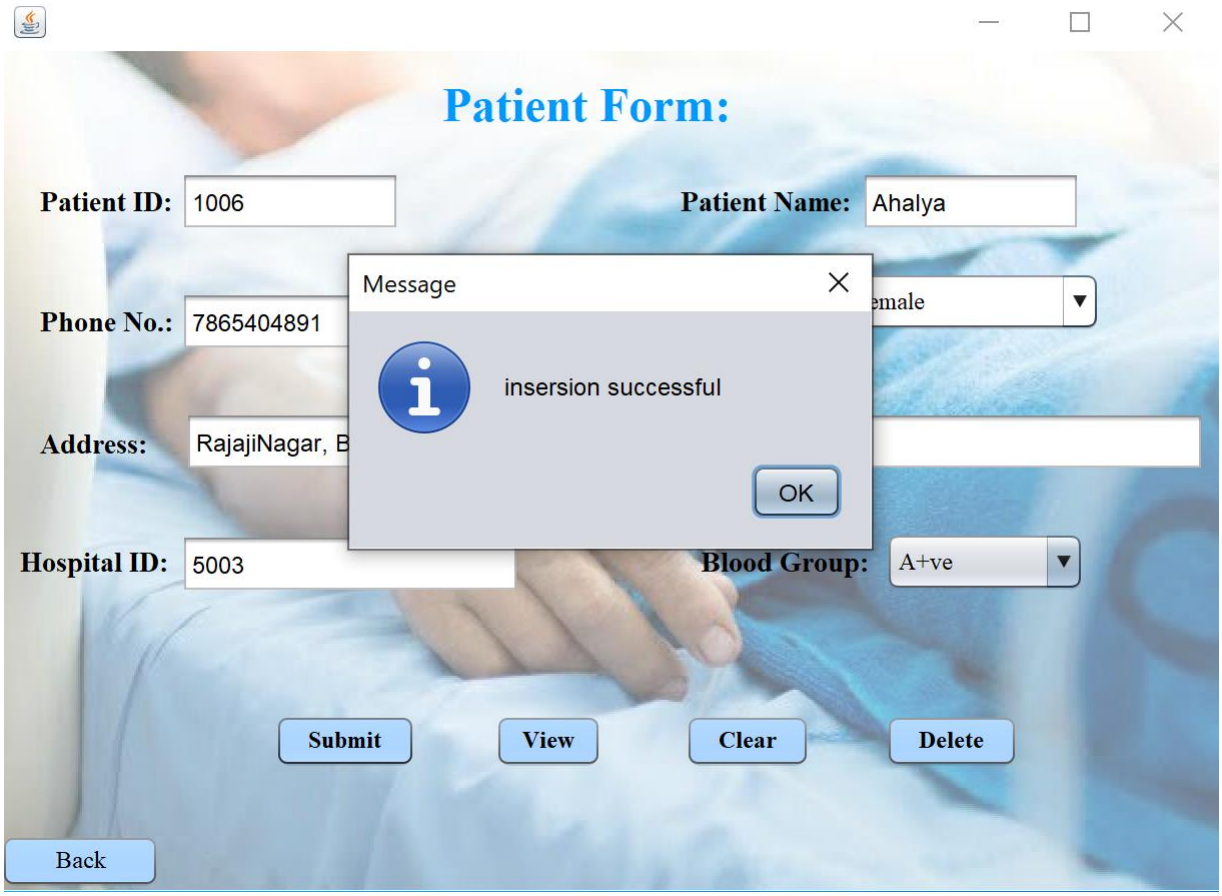


Figure 4.11: INSERTION OF PATIENT FORM

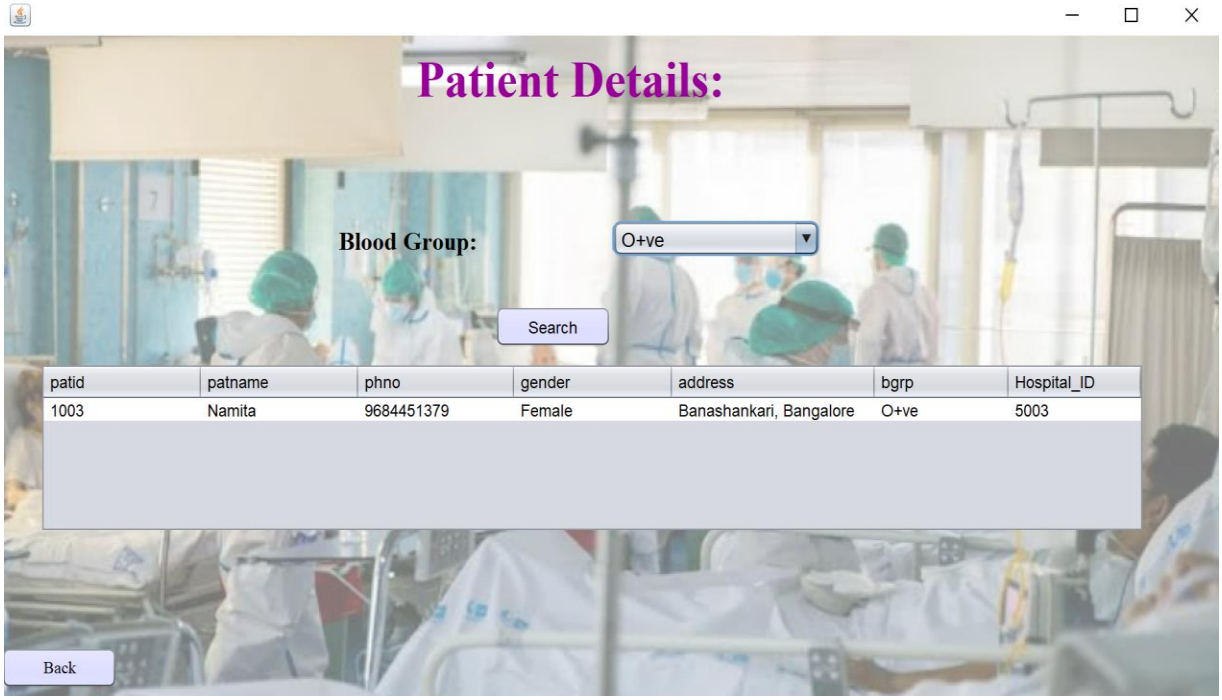


Figure 4.12: DISPLAYING PATIENTS DETAILS

Figure 4.13: DISPLAYING BRANCH DETAILS

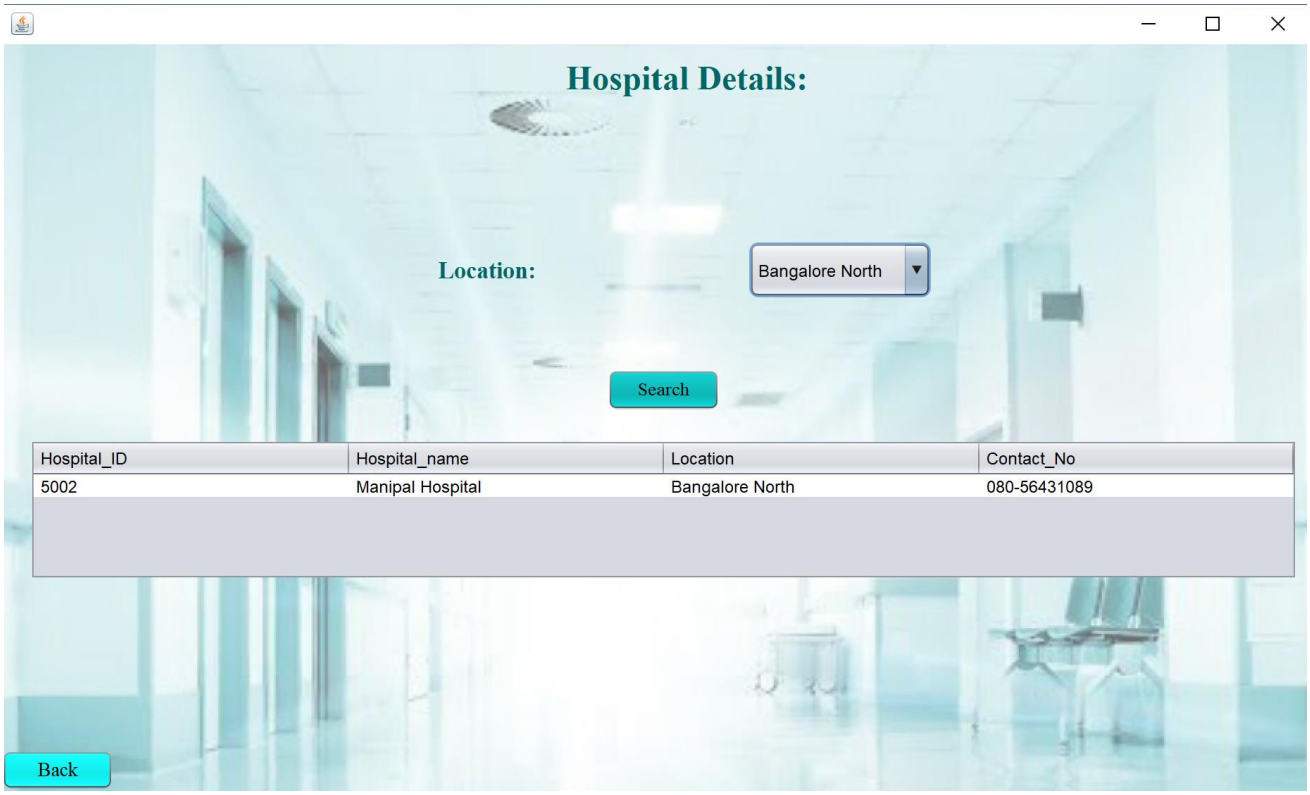


Figure 4.14: DISPLAYING HOSPITAL DETAILS BY LOCATION

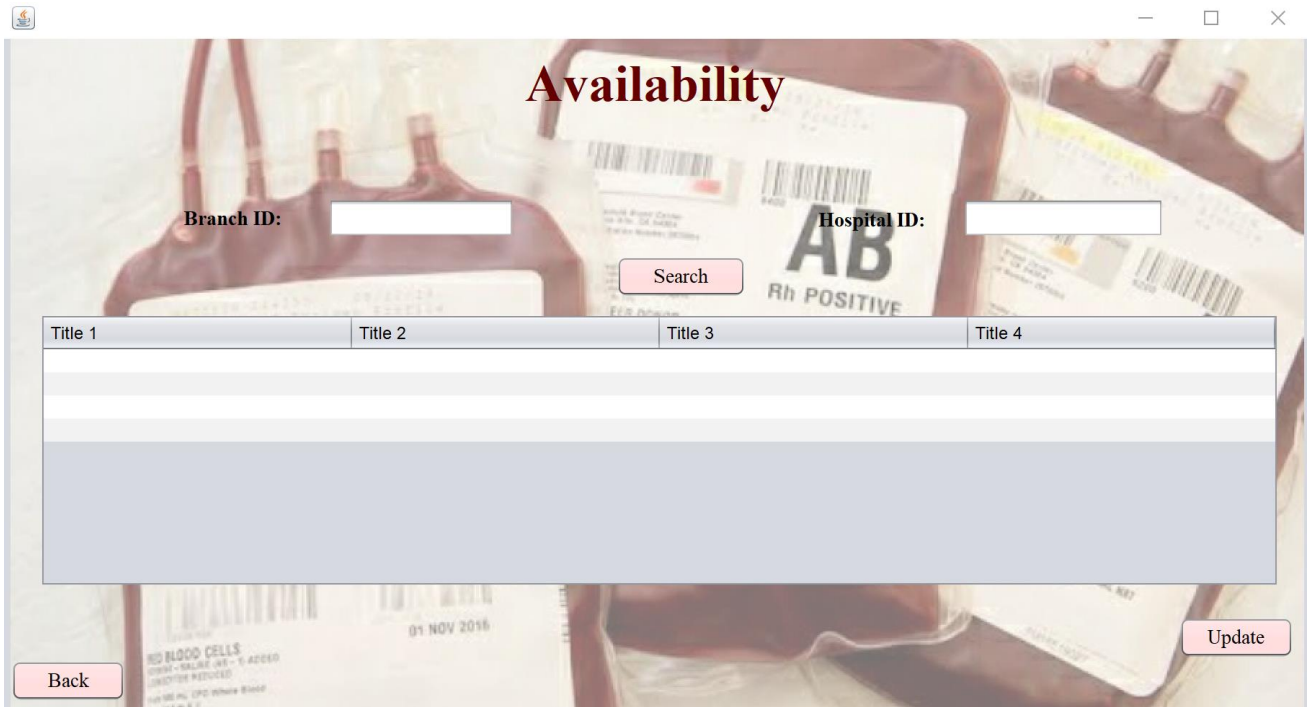


Figure 4.15: AVAILABILITY FORM

Figure 4.16: CHECKING AVAILABLITY BY BRANCH ID

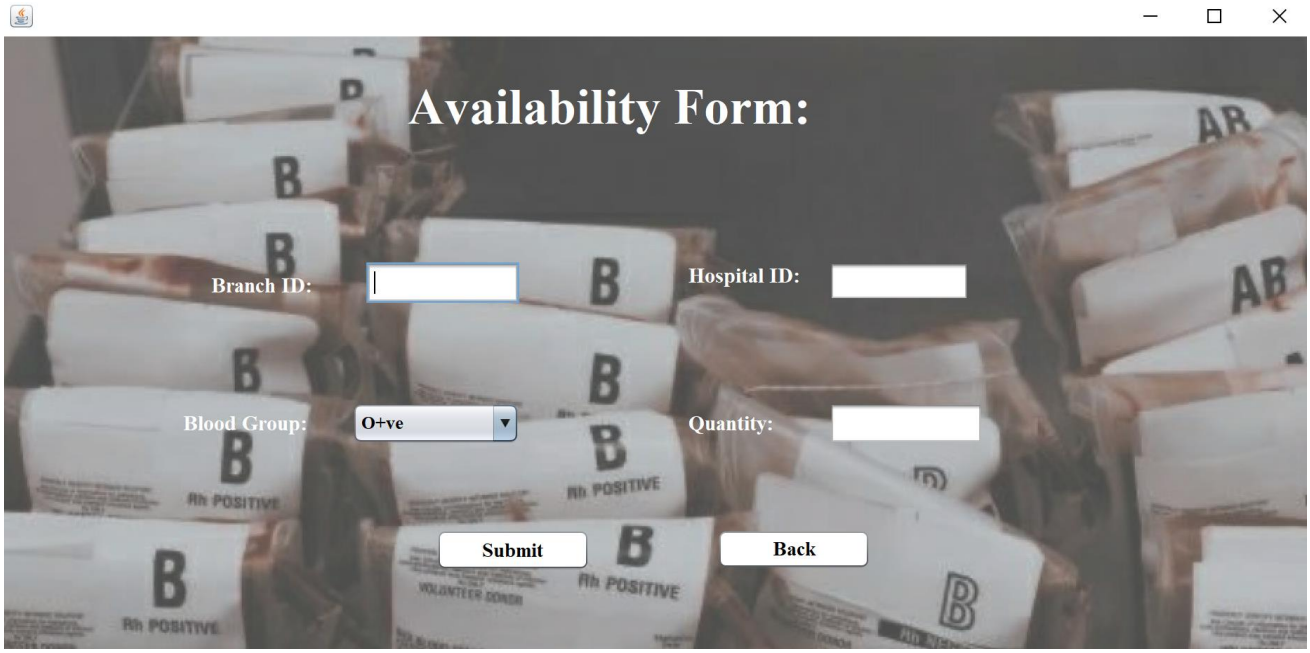


Figure 4.17: UPDATION OF AVAILABILITY OF BLOOD GROUP

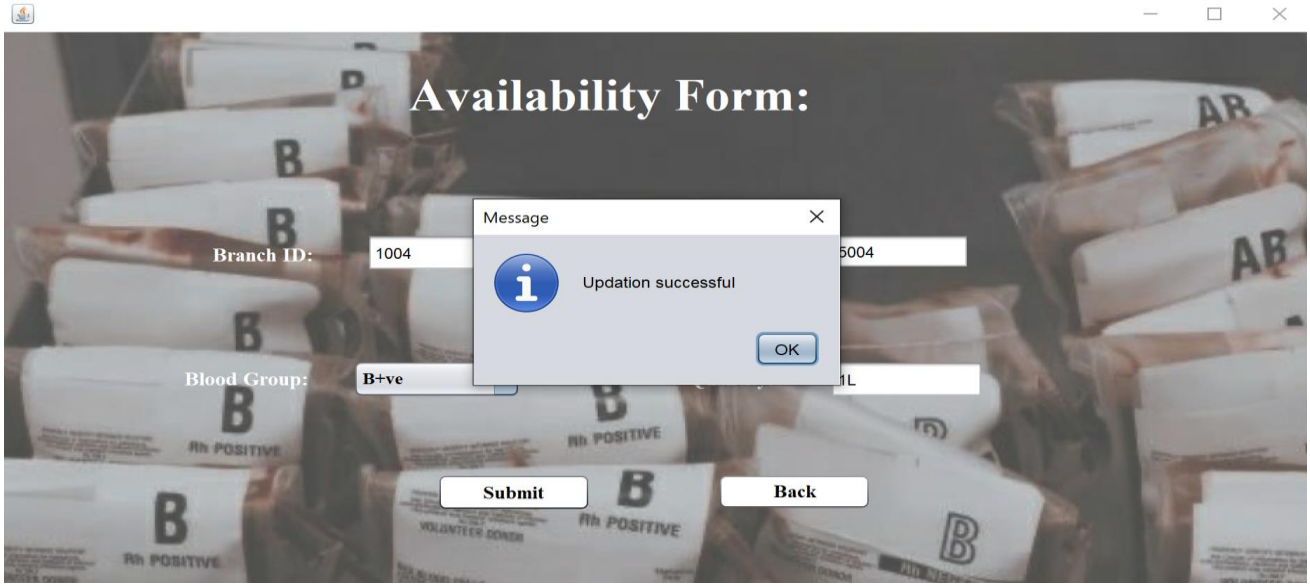


Figure 4.18: SUCCESSFUL UPDATION MESSAGE

QUERIES

1.Displaying hospital by location

select * from hospital where Location=”Banglore north”;

2.Displaying patient details by blood group

select * from patient where blood_group=”O+ve”;

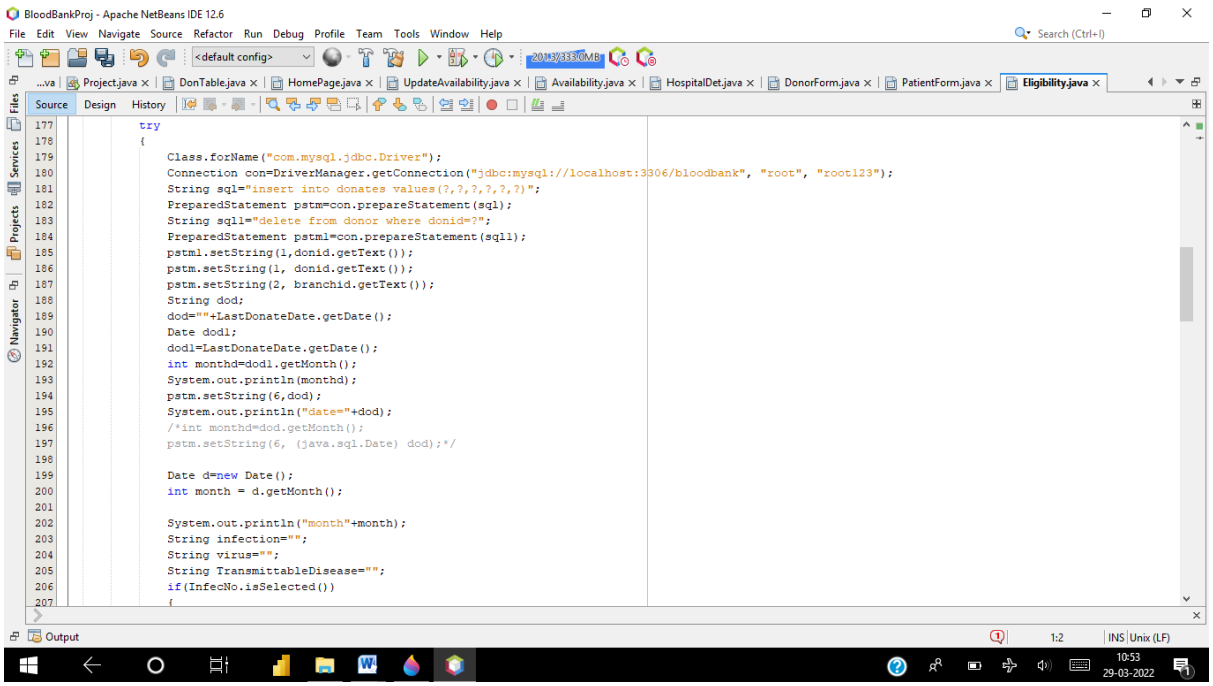
3.Checking availability in respective branch and hospital

select * from availability where branch_id=1001 and hospital_id=5001;

4.Updation of blood availability

update Availabilty set Quantity=”2L” where BloodGroup=”O+ve” and Branch_id=1001 and Hospital_id=5001;

5.Checking eligibility of donor



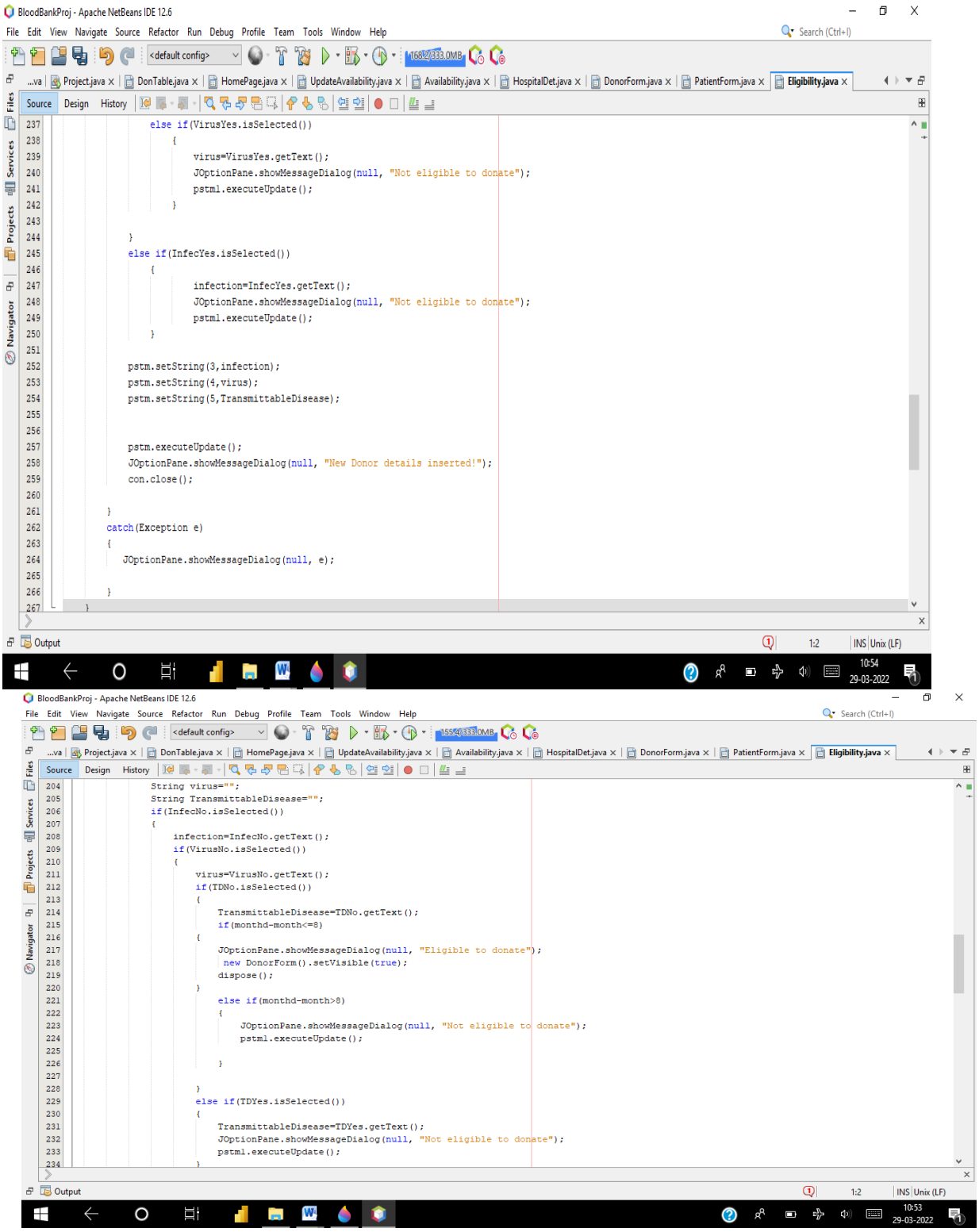


Figure 4.19-4.21: Eligibility query

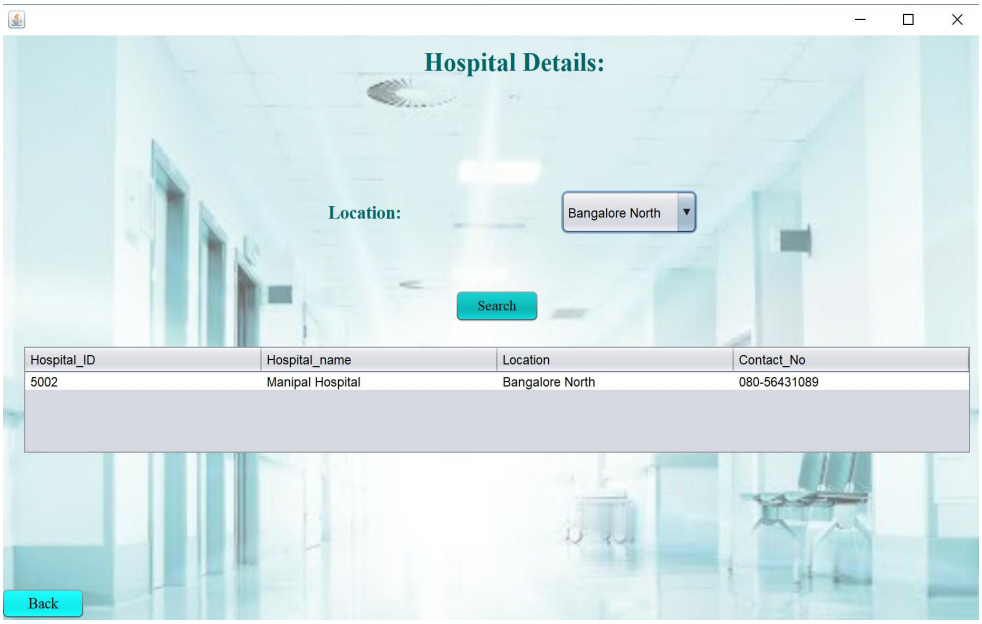


Figure 4.22: QUERY 1

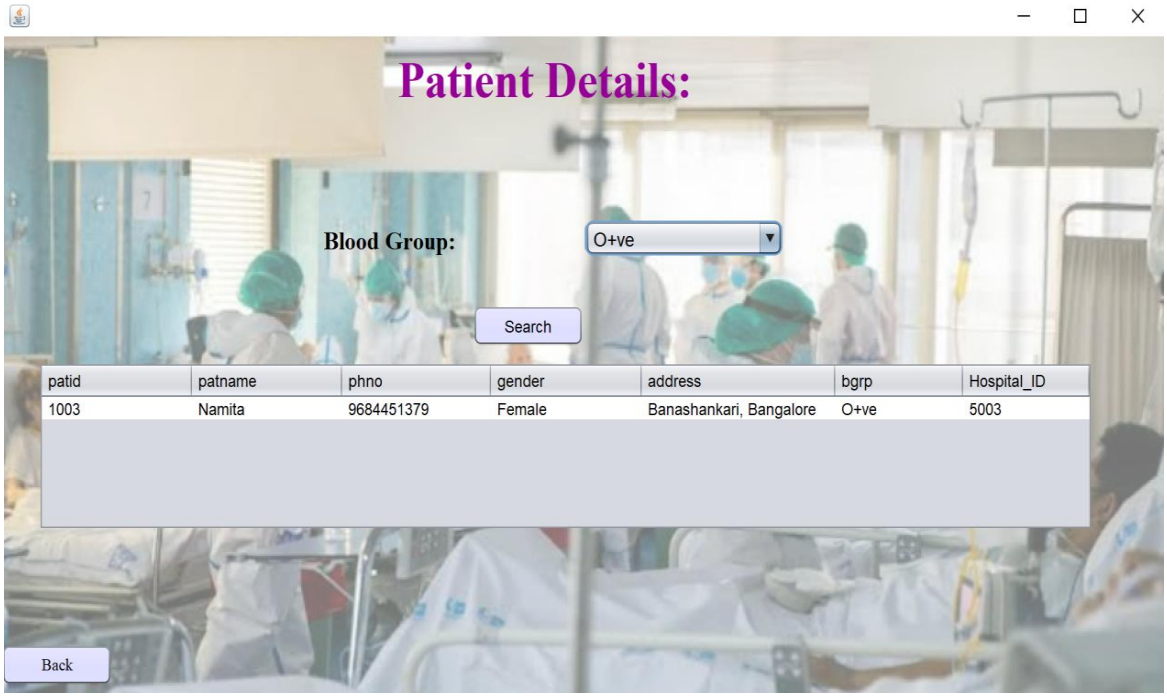


Figure 4.23: QUERY 2

Figure 4.24: QUERY 3

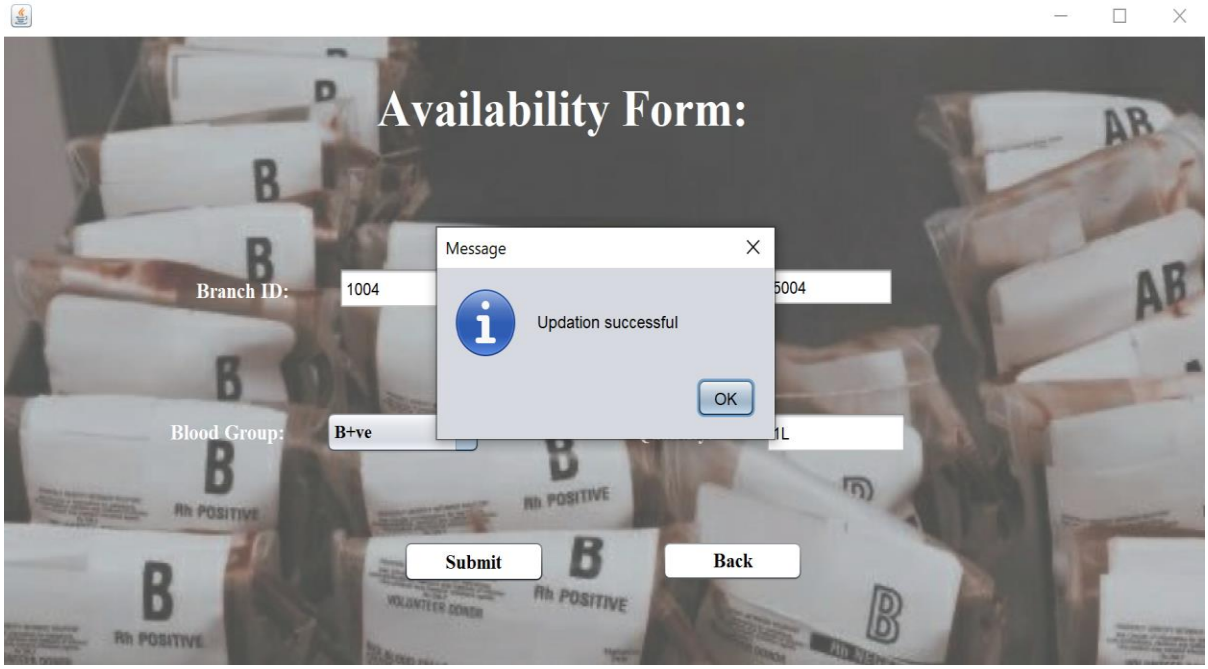


Figure 4.25: QUERY 4

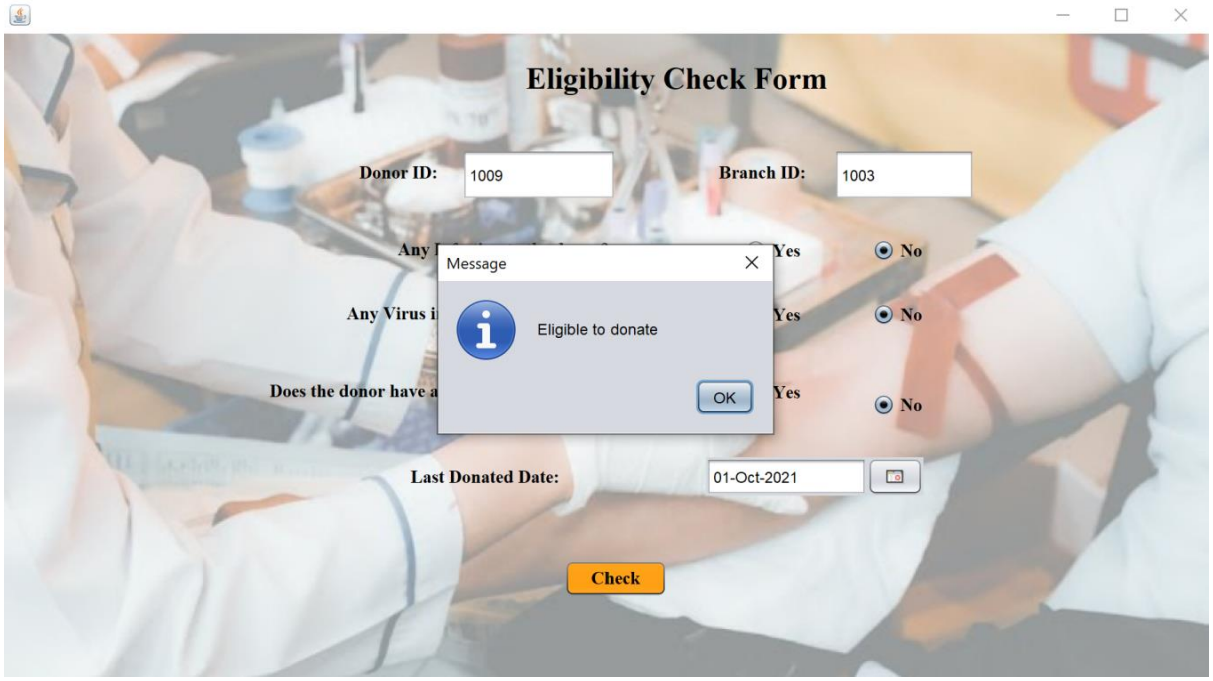


Figure 4.26: QUERY 5

CONCLUSION

We have successfully implemented the BLOOD BANK ORGANISATION DATABASE which helps in managing the data used to perform the various tasks in the blood bank organisation.

View tables are used to display all the components of different entities that user needs. One can just select the buttons and modify the data as per requirements.

We have successfully used various functionalities of JAVA and SQL and created the fully functional database system

Blood bank organisation Database has to do with making appropriate effort to stop the rising problem of all manual blood bank operation in order to enhance the operation of such supermarket.

In this project, the software or system that can be used to aid all blood bank organization that is still operating manually have been successfully developed. The software can be implementing in all types of blood bank organization.

Features

1. A password system that will be embedded into login page to increase the Security of the system.
2. A good Printing module should be included.
3. A data required for different operations are accessible to the admin.
4. Quick and easy saving and loading of database file.

References

Net Beans 8.2

https://docs.oracle.com/netbeans/nb82/netbeans/docs.htm

JDBC Driver for MySQL (Connector/J)

https://dev.mysql.com/downloads/connector/j/5.1.html

MySQL Database

https://www.mysql.com/down

loads/