Table of Contents

[1. Blook Bank 2](file:///C:\Users\l\Desktop\proposal.docx#_Toc44591592)

[1.1. Database Planning 2](file:///C:\Users\l\Desktop\proposal.docx#_Toc1850399557)

[1.1.1 Mission Objectives 2](file:///C:\Users\l\Desktop\proposal.docx#_Toc1984648612)

[1.1.2 Mission Objective of Database 2](file:///C:\Users\l\Desktop\proposal.docx#_Toc1937987603)

[1.1.3 ER Digram 4](file:///C:\Users\l\Desktop\proposal.docx#_Toc1420639220)

[1.1.4 Views 4](file:///C:\Users\l\Desktop\proposal.docx#_Toc1285984605)

[1.2. Task Assign to Members 4](file:///C:\Users\l\Desktop\proposal.docx#_Toc1722143806)

[1.2.1 Hamza-Bin-Ahmad And Sharjeel: 4](file:///C:\Users\l\Desktop\proposal.docx#_Toc368931147)

[1.2.2 Abdullah-Noor-Niazi and Hamza-Aslam 4](file:///C:\Users\l\Desktop\proposal.docx#_Toc1414114521)

[1.2.3 Usama-Farid and Usman Jadoon 4](file:///C:\Users\l\Desktop\proposal.docx#_Toc387516897)

[1.2.4 Mahad and Hanzala Shahid 5](file:///C:\Users\l\Desktop\proposal.docx#_Toc39896974)

[Note: 5](file:///C:\Users\l\Desktop\proposal.docx#_Toc1628618295)

# Blood Bank

## Database Planning

We can Divided our Blood Bank Into Following Sections.

### Mission Objectives

*“***Blood Bank Management System** (BBMS) is a web based **system** that can assists the information of **blood** bag during its handling in the **blood bank**. With this **system**, the user of this **system** can key in the result of **blood** test that has been conducted to each of the **blood** bag received by the **blood bank**.

### Mission Objective of Database

Mission Objective of the database is

* To maintain (Enter, Update and Delete) data on Donors
* To maintain (Enter, Update and Delete) data on Patients
* To maintain (Enter, Update and Delete) data on Blood Bank
* To maintain (Enter, Update and Delete) data on Blood Groups
* To maintain (Enter, Update and Delete) data on Blood Request
* To maintain (Enter, Update and Delete) data on Health of Donors

### ER Diagram



### Views

There is only one view in our Systems

## Task Assign to Members

### Hamza-Bin-Ahmad And Sharjeel:

Hamza-Bin-Ahmad And Sharjeel will design and develop the Login Functionalities in Our Blood Donation Management by interacting with database to validate the user.

### Abdullah Noor Niazi And Hamza Aslam

Abdullah-Noor-Niazi and Hamza-Aslam will Develop And Design the Dashboard Functionalities After User will login The system.

### Usama-Farid, Usman Jadoon

Usama-Farid and Usman Jadoon has to design And Develop the Blood Section That will include Available Blood, New Donor Insertion part, Available and Not available Blood and The Prices of Blood.

### Mahad And Hanzala-Shahid

They will design Design and Develop The finicial aspect of Database like Weekly, monthly, annual report. They will also create the amound spend on Blood Bank System. Beside that it will calculate the profit of the Blood Bank System. Also They will Handle the connection of Database And Also Integrate the work in to functional Software.

#### Note:

Each Indiviual Have to provide His Part Of Design to the team Leader.

Assignment 2: -

# Common Solution:-

By **Hamza Bin Ahmad and Mahad Ali Awan**

**TABLE:**

create table Donor\_Data

(

Donor\_Name varchar(20) NOT NULL,

Donor\_Id varchar(50) NOT NULL Primary Key ,

Donor\_Blood\_Group varchar(50) NOT NULL,

Donor\_Medical\_report varchar(50) NOT NULL,

Donor\_Address varchar(20) NOT NULL,

Donor\_contact varchar(20) NOT NULL

);

create table Patient\_Data

(

Patient\_Name varchar(20) NOT NULL,

Patient\_Id varchar(100) NOT NULL Primary Key ,

Patient\_Blood\_Group varchar(50) NOT NULL,

Patient\_Disease varchar(50) NOT NULL

);

create table Blood\_Bank\_Data

(

Serial\_No varchar(20) NOT NULL,

Blood\_Bank\_Name varchar(100) NOT NULL,

Blood\_Bank\_Address varchar(50) NOT NULL,

Blood\_Bank\_Contact\_Number varchar(50) NOT NULL,

Donor\_Id varchar(50) NOT NULL References Donor\_Data(Donor\_Id)

);

**DATA:**

INSERT into Donor\_Data

(

Donor\_Name,Donor\_Id,Donor\_Blood\_Group,Donor\_Medical\_report,Donor\_Address,Donor\_contact

)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

INSERT into patient\_data

(Patient\_Name

,Patient\_Id

,Patient\_Blood\_Group

,Patient\_Disease

)

VALUES

Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease

(N’asif’, N’B201’, N’B+’, N’Brain tummer’),

(N’Amir’, N’B202’, N’A+’, N’Cancer’),

(N’Umer’, N’B203’, N’O-‘, N’Blood Cancer’)

(N’Nimra’, N’B204’, N’B-‘, N’Heart Disease’);

INSERT into Blood\_Bank\_Data

(

Serial\_No,

Blood\_Bank\_Name,

Blood\_Bank\_Address,

Blood\_Bank\_Contact\_Number,

Donor\_Id

)

VALUES

(N'S\_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),

(N'S\_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),

(N'S\_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),

(N'S\_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');

**Output:**

Donor\_Data:

**Donor\_Name Donor\_Id Donor\_Blood\_Group Donor\_Medical\_report Donor\_Address Donor\_contact**

Hamza 1001 A+ Positive Lahore, Pakistan 0333-4049000

Ahmed 1002 B+ Positive Abbottabad, Pakistan 0333-4047001

Zain 1003 O- Positive Islamabad, Pakistan 0333-4029004

inam 1004 A+ Negative Haripur, Pakistan 0333-4049040

Datient\_Data:

**Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease**

asif B201 B+ Brain tummer

Amir B202 A+ Cancer

Umer B203 O- Blood Cancer

Nimra B204 B- Heart Disease

Blood\_Bank\_Data:

**S**erial\_No Blood\_Bank\_Name Blood\_Bank\_Address Blood\_Bank\_Contact\_Number Donor\_Id

S\_01 AMMAR Blood Bank lahore 0992-093945 1001

S\_02 Tariq Blood Bank Abbottabad 0992-91233 1002

S\_03 Rauf Blood Bank Haripur 0992-123123 1004

S\_04 Shifa Blood Bank Islamabad 0992-123432 1003

**STEPS: -**

* **First, we created 3 tables which will store the data of the all the things.**
* **Second, we assigned the data**
* **In Donor Data we put all Donor Data**
* **In Patient Data we put all the patient’s data**
* **In Blood Bank Data we put all of our Blood bank Data**
* **We combined all the three tables with the help of a foreign key**

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Individual solution: -

1.Mahad Ali:

Table:

create table Donor\_Data

(

Donor\_Name varchar(20) NOT NULL,

Donor\_Id varchar(50) NOT NULL Primary Key ,

Donor\_Blood\_Group varchar(50) NOT NULL,

Donor\_Medical\_report varchar(50) NOT NULL,

Donor\_Address varchar(20) NOT NULL,

Donor\_contact varchar(20) NOT NULL

);

create table Patient\_Data

(

Patient\_Name varchar(20) NOT NULL,

Patient\_Id varchar(100) NOT NULL Primary Key ,

Patient\_Blood\_Group varchar(50) NOT NULL,

Patient\_Disease varchar(50) NOT NULL

);

create table Blood\_Bank\_Data

(

Serial\_No varchar(20) NOT NULL,

Blood\_Bank\_Name varchar(100) NOT NULL,

Blood\_Bank\_Address varchar(50) NOT NULL,

Blood\_Bank\_Contact\_Number varchar(50) NOT NULL,

Donor\_Id varchar(50) NOT NULL References Donor\_Data(Donor\_Id)

);

**DATA:**

INSERT into Donor\_Data

(

Donor\_Name,Donor\_Id,Donor\_Blood\_Group,Donor\_Medical\_report,Donor\_Address,Donor\_contact

)

VALUES

('Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

('Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

('Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

('inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

INSERT into patient\_data

(Patient\_Name

,Patient\_Id

,Patient\_Blood\_Group

,Patient\_Disease

)

VALUES

Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease

(’asif’, N’B201’, N’B+’, N’Brain tummer’),

(’Amir’, N’B202’, N’A+’, N’Cancer’),

(’Umer’, N’B203’, N’O-‘, N’Blood Cancer’)

(’Nimra’, N’B204’, N’B-‘, N’Heart Disease’);

INSERT into Blood\_Bank\_Data

(

Serial\_No,

Blood\_Bank\_Name,

Blood\_Bank\_Address,

Blood\_Bank\_Contact\_Number,

Donor\_Id

)

VALUES

('S\_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),

('S\_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),

('S\_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),

('S\_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');

**Output:**

Donor\_Data:

**Donor\_Name Donor\_Id Donor\_Blood\_Group Donor\_Medical\_report Donor\_Address Donor\_contact**

Hamza 1001 A+ Positive Lahore, Pakistan 0333-4049000

Ahmed 1002 B+ Positive Abbottabad, Pakistan 0333-4047001

Zain 1003 O- Positive Islamabad, Pakistan 0333-4029004

inam 1004 A+ Negative Haripur, Pakistan 0333-4049040

Patient\_Data:

**Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease**

asif B201 B+ Brain tummer

Amir B202 A+ Cancer

Umer B203 O- Blood Cancer

Nimra B204 B- Heart Disease

Blood\_Bank\_Data:

**S**erial\_No Blood\_Bank\_Name Blood\_Bank\_Address Blood\_Bank\_Contact\_Number Donor\_Id

S\_01 AMMAR Blood Bank lahore 0992-093945 1001

S\_02 Tariq Blood Bank Abbottabad 0992-91233 1002

S\_03 Rauf Blood Bank Haripur 0992-123123 1004

S\_04 Shifa Blood Bank Islamabad 0992-123432 1003

**STEPS: -**

* **First, we created 3 tables which will store the data of the all the things.**
* **Second, we assigned the data**
* **In Donor Data we put all Donor Data**
* **In Patient Data we put all the patient’s data**
* **In Blood Bank Data we put all of our Blood bank Data**
* **We combined all the three tables with the help of a foreign key**

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



2.Sharjeel Khan

**TABLE:**

create table Donor\_Data

(

Donor\_Name varchar(20) NOT NULL,

Donor\_Id varchar(50) NOT NULL Primary Key ,

Donor\_Blood\_Group varchar(50) NOT NULL,

Donor\_Medical\_report varchar(50) NOT NULL,

Donor\_Address varchar(20) NOT NULL,

Donor\_contact varchar(20) NOT NULL

);

create table Patient\_Data

(

Patient\_Name varchar(20) NOT NULL,

Patient\_Id varchar(100) NOT NULL Primary Key ,

Patient\_Blood\_Group varchar(50) NOT NULL,

Patient\_Disease varchar(50) NOT NULL

);

create table Blood\_Bank\_Data

(

Serial\_No varchar(20) NOT NULL,

Blood\_Bank\_Name varchar(100) NOT NULL,

Blood\_Bank\_Address varchar(50) NOT NULL,

Blood\_Bank\_Contact\_Number varchar(50) NOT NULL,

Donor\_Id varchar(50) NOT NULL References Donor\_Data(Donor\_Id)

);

**DATA:**

INSERT into Donor\_Data

(

Donor\_Name,Donor\_Id,Donor\_Blood\_Group,Donor\_Medical\_report,Donor\_Address,Donor\_contact

)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

INSERT into patient\_data

(Patient\_Name

,Patient\_Id

,Patient\_Blood\_Group

,Patient\_Disease

)

VALUES

Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease

(N’asif’, N’B201’, N’B+’, N’Brain tummer’),

(N’Amir’, N’B202’, N’A+’, N’Cancer’),

(N’Umer’, N’B203’, N’O-‘, N’Blood Cancer’)

(N’Nimra’, N’B204’, N’B-‘, N’Heart Disease’);

INSERT into Blood\_Bank\_Data

(

Serial\_No,

Blood\_Bank\_Name,

Blood\_Bank\_Address,

Blood\_Bank\_Contact\_Number,

Donor\_Id

)

VALUES

(N'S\_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),

(N'S\_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),

(N'S\_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),

(N'S\_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');

**Output:**

Donor\_Data:

**Donor\_Name Donor\_Id Donor\_Blood\_Group Donor\_Medical\_report Donor\_Address Donor\_contact**

Hamza 1001 A+ Positive Lahore, Pakistan 0333-4049000

Ahmed 1002 B+ Positive Abbottabad, Pakistan 0333-4047001

Zain 1003 O- Positive Islamabad, Pakistan 0333-4029004

inam 1004 A+ Negative Haripur, Pakistan 0333-4049040

Datient\_Data:

**Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease**

asif B201 B+ Brain tummer

Amir B202 A+ Cancer

Umer B203 O- Blood Cancer

Nimra B204 B- Heart Disease

Blood\_Bank\_Data:

**S**erial\_No Blood\_Bank\_Name Blood\_Bank\_Address Blood\_Bank\_Contact\_Number Donor\_Id

S\_01 AMMAR Blood Bank lahore 0992-093945 1001

S\_02 Tariq Blood Bank Abbottabad 0992-91233 1002

S\_03 Rauf Blood Bank Haripur 0992-123123 1004

S\_04 Shifa Blood Bank Islamabad 0992-123432 1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Hanzala Shahid: -

**TABLE:**

create table Donor\_Data

(

Donor\_Name varchar(20) NOT NULL,

Donor\_Id varchar(50) NOT NULL Primary Key ,

Donor\_Blood\_Group varchar(50) NOT NULL,

Donor\_Medical\_report varchar(50) NOT NULL,

Donor\_Address varchar(20) NOT NULL,

Donor\_contact varchar(20) NOT NULL

);

create table Patient\_Data

(

Patient\_Name varchar(20) NOT NULL,

Patient\_Id varchar(100) NOT NULL Primary Key ,

Patient\_Blood\_Group varchar(50) NOT NULL,

Patient\_Disease varchar(50) NOT NULL

);

create table Blood\_Bank\_Data

(

Serial\_No varchar(20) NOT NULL,

Blood\_Bank\_Name varchar(100) NOT NULL,

Blood\_Bank\_Address varchar(50) NOT NULL,

Blood\_Bank\_Contact\_Number varchar(50) NOT NULL,

Donor\_Id varchar(50) NOT NULL References Donor\_Data(Donor\_Id)

);

**DATA:**

INSERT into Donor\_Data

(

Donor\_Name,Donor\_Id,Donor\_Blood\_Group,Donor\_Medical\_report,Donor\_Address,Donor\_contact

)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

INSERT into patient\_data

(Patient\_Name

,Patient\_Id

,Patient\_Blood\_Group

,Patient\_Disease

)

VALUES

Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease

(N’asif’, N’B201’, N’B+’, N’Brain tummer’),

(N’Amir’, N’B202’, N’A+’, N’Cancer’),

(N’Umer’, N’B203’, N’O-‘, N’Blood Cancer’)

(N’Nimra’, N’B204’, N’B-‘, N’Heart Disease’);

INSERT into Blood\_Bank\_Data

(

Serial\_No,

Blood\_Bank\_Name,

Blood\_Bank\_Address,

Blood\_Bank\_Contact\_Number,

Donor\_Id

)

VALUES

(N'S\_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),

(N'S\_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),

(N'S\_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),

(N'S\_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');

**Output:**

Donor\_Data:

**Donor\_Name Donor\_Id Donor\_Blood\_Group Donor\_Medical\_report Donor\_Address Donor\_contact**

Hamza 1001 A+ Positive Lahore, Pakistan 0333-4049000

Ahmed 1002 B+ Positive Abbottabad, Pakistan 0333-4047001

Zain 1003 O- Positive Islamabad, Pakistan 0333-4029004

inam 1004 A+ Negative Haripur, Pakistan 0333-4049040

Datient\_Data:

**Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease**

asif B201 B+ Brain tummer

Amir B202 A+ Cancer

Umer B203 O- Blood Cancer

Nimra B204 B- Heart Disease

Blood\_Bank\_Data:

**S**erial\_No Blood\_Bank\_Name Blood\_Bank\_Address Blood\_Bank\_Contact\_Number Donor\_Id

S\_01 AMMAR Blood Bank lahore 0992-093945 1001

S\_02 Tariq Blood Bank Abbottabad 0992-91233 1002

S\_03 Rauf Blood Bank Haripur 0992-123123 1004

S\_04 Shifa Blood Bank Islamabad 0992-123432 1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Hamza-Bin-Ahmad: -

**TABLE:**

create table Donor\_Data

(

Donor\_Name varchar(20) NOT NULL,

Donor\_Id varchar(50) NOT NULL Primary Key ,

Donor\_Blood\_Group varchar(50) NOT NULL,

Donor\_Medical\_report varchar(50) NOT NULL,

Donor\_Address varchar(20) NOT NULL,

Donor\_contact varchar(20) NOT NULL

);

create table Patient\_Data

(

Patient\_Name varchar(20) NOT NULL,

Patient\_Id varchar(100) NOT NULL Primary Key ,

Patient\_Blood\_Group varchar(50) NOT NULL,

Patient\_Disease varchar(50) NOT NULL

);

create table Blood\_Bank\_Data

(

Serial\_No varchar(20) NOT NULL,

Blood\_Bank\_Name varchar(100) NOT NULL,

Blood\_Bank\_Address varchar(50) NOT NULL,

Blood\_Bank\_Contact\_Number varchar(50) NOT NULL,

Donor\_Id varchar(50) NOT NULL References Donor\_Data(Donor\_Id)

);

**DATA:**

INSERT into Donor\_Data

(

Donor\_Name,Donor\_Id,Donor\_Blood\_Group,Donor\_Medical\_report,Donor\_Address,Donor\_contact

)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

INSERT into patient\_data

(Patient\_Name

,Patient\_Id

,Patient\_Blood\_Group

,Patient\_Disease

)

VALUES

Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease

(N’asif’, N’B201’, N’B+’, N’Brain tummer’),

(N’Amir’, N’B202’, N’A+’, N’Cancer’),

(N’Umer’, N’B203’, N’O-‘, N’Blood Cancer’)

(N’Nimra’, N’B204’, N’B-‘, N’Heart Disease’);

INSERT into Blood\_Bank\_Data

(

Serial\_No,

Blood\_Bank\_Name,

Blood\_Bank\_Address,

Blood\_Bank\_Contact\_Number,

Donor\_Id

)

VALUES

(N'S\_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),

(N'S\_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),

(N'S\_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),

(N'S\_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');

**Output:**

Donor\_Data:

**Donor\_Name Donor\_Id Donor\_Blood\_Group Donor\_Medical\_report Donor\_Address Donor\_contact**

Hamza 1001 A+ Positive Lahore, Pakistan 0333-4049000

Ahmed 1002 B+ Positive Abbottabad, Pakistan 0333-4047001

Zain 1003 O- Positive Islamabad, Pakistan 0333-4029004

inam 1004 A+ Negative Haripur, Pakistan 0333-4049040

Datient\_Data:

**Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease**

asif B201 B+ Brain tummer

Amir B202 A+ Cancer

Umer B203 O- Blood Cancer

Nimra B204 B- Heart Disease

Blood\_Bank\_Data:

**S**erial\_No Blood\_Bank\_Name Blood\_Bank\_Address Blood\_Bank\_Contact\_Number Donor\_Id

S\_01 AMMAR Blood Bank lahore 0992-093945 1001

S\_02 Tariq Blood Bank Abbottabad 0992-91233 1002

S\_03 Rauf Blood Bank Haripur 0992-123123 1004

S\_04 Shifa Blood Bank Islamabad 0992-123432 1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Abdullah Noor:-

**TABLE:**

create table Donor\_Data

(

Donor\_Name varchar(20) NOT NULL,

Donor\_Id varchar(50) NOT NULL Primary Key ,

Donor\_Blood\_Group varchar(50) NOT NULL,

Donor\_Medical\_report varchar(50) NOT NULL,

Donor\_Address varchar(20) NOT NULL,

Donor\_contact varchar(20) NOT NULL

);

create table Patient\_Data

(

Patient\_Name varchar(20) NOT NULL,

Patient\_Id varchar(100) NOT NULL Primary Key ,

Patient\_Blood\_Group varchar(50) NOT NULL,

Patient\_Disease varchar(50) NOT NULL

);

create table Blood\_Bank\_Data

(

Serial\_No varchar(20) NOT NULL,

Blood\_Bank\_Name varchar(100) NOT NULL,

Blood\_Bank\_Address varchar(50) NOT NULL,

Blood\_Bank\_Contact\_Number varchar(50) NOT NULL,

Donor\_Id varchar(50) NOT NULL References Donor\_Data(Donor\_Id)

);

**DATA:**

INSERT into Donor\_Data

(

Donor\_Name,Donor\_Id,Donor\_Blood\_Group,Donor\_Medical\_report,Donor\_Address,Donor\_contact

)

VALUES

(N'Hamza', N'1001', N'A+', N'Positive',N'Lahore,Pakistan',N'0333-4049000'),

(N'Ahmed', N'1002', N'B+', N'Positive',N'Abbottabad,Pakistan',N'0333-4047001'),

(N'Zain', N'1003', N'O-', N'Positive',N'Islamabad,Pakistan',N'0333-4029004'),

(N'inam', N'1004', N'A+', N'Negitive',N'HariPur,Pakistan',N'0333-4049040')

INSERT into patient\_data

(Patient\_Name

,Patient\_Id

,Patient\_Blood\_Group

,Patient\_Disease

)

VALUES

Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease

(N’asif’, N’B201’, N’B+’, N’Brain tummer’),

(N’Amir’, N’B202’, N’A+’, N’Cancer’),

(N’Umer’, N’B203’, N’O-‘, N’Blood Cancer’)

(N’Nimra’, N’B204’, N’B-‘, N’Heart Disease’);

INSERT into Blood\_Bank\_Data

(

Serial\_No,

Blood\_Bank\_Name,

Blood\_Bank\_Address,

Blood\_Bank\_Contact\_Number,

Donor\_Id

)

VALUES

(N'S\_01', N'Ammar Blood Bank', N'Abbottabad,Pakistan', N'0992-0023450',N'1002'),

(N'S\_02', N'Al-shifa Blood Bank',N'Haripur,pakistan', N'0992-900983',N'1004'),

(N'S\_03', N'Hamza Blood Bank', N'islamabad,Pakistan', N'0992-452345',N'1003'),

(N'S\_04', N'Hassan Blood Bank', N'Lahore,Pakistan', N'0992-986019',N'1001');

**Output:**

Donor\_Data:

**Donor\_Name Donor\_Id Donor\_Blood\_Group Donor\_Medical\_report Donor\_Address Donor\_contact**

Hamza 1001 A+ Positive Lahore, Pakistan 0333-4049000

Ahmed 1002 B+ Positive Abbottabad, Pakistan 0333-4047001

Zain 1003 O- Positive Islamabad, Pakistan 0333-4029004

inam 1004 A+ Negative Haripur, Pakistan 0333-4049040

Datient\_Data:

**Patient\_Name Patient\_Id Patient\_Blood\_Group Patient\_Disease**

asif B201 B+ Brain tummer

Amir B202 A+ Cancer

Umer B203 O- Blood Cancer

Nimra B204 B- Heart Disease

Blood\_Bank\_Data:

**S**erial\_No Blood\_Bank\_Name Blood\_Bank\_Address Blood\_Bank\_Contact\_Number Donor\_Id

S\_01 AMMAR Blood Bank lahore 0992-093945 1001

S\_02 Tariq Blood Bank Abbottabad 0992-91233 1002

S\_03 Rauf Blood Bank Haripur 0992-123123 1004

S\_04 Shifa Blood Bank Islamabad 0992-123432 1003

ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



Usman Jadoon: -



Usama Farid:-



Question 2:

Write the output of conceptual database design?

Ans:

Build a conceptual data model

Recognize entity types

Recognize the relationship types

Identify and connect attributes with entity or relationship types

Determine attribute domains

Determine candidate, primary, and alternate key attributes

Consider the use of improved modeling concepts (optional step)

Check model for redundancy

Validate the conceptual model against user transactions

Review the conceptual data model with user