

Table of Contents

1. Blook Bank	2
1.1. Database Planning	2
1.1.1 Mission Objectives	2
1.1.2 Mission Objective of Database	2
1.1.3 ER Digram	4
1.1.4 Views	4
1.2. Task Assign to Members	4
1.2.1 Hamza-Bin-Ahmad And Sharjeel:	4
1.2.2 Abdullah-Noor-Niazi and Hamza-Aslam	4
1.2.3 Usama-Farid and Usman Jadoon	4
1.2.4 Mahad and Hanzala Shahid	5
Note:	5

1. Blood Bank

1.1. Database Planning

We can Divided our Blood Bank Into Following Sections.

1.1.1 Mission Objectives

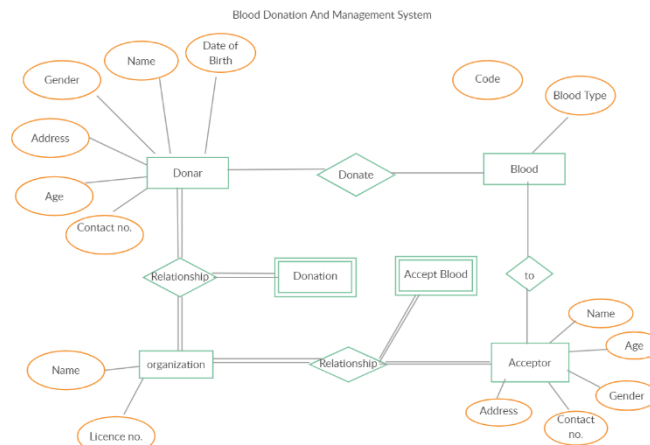
“**Blood Bank Management System** (BBMS) is a web based **system** that can assists the information of **blood** bag during its handling in the **blood bank**. With this **system**, the user of this **system** can key in the result of **blood** test that has been conducted to each of the **blood** bag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

1.1.2 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

1.1.3 ER Diagram



1.1.4 Views

There is only one view in our Systems

1.2.Task Assign to Members

1.2.1 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.

1.2.2 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.

1.2.3 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.

1.2.4 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 Individial 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

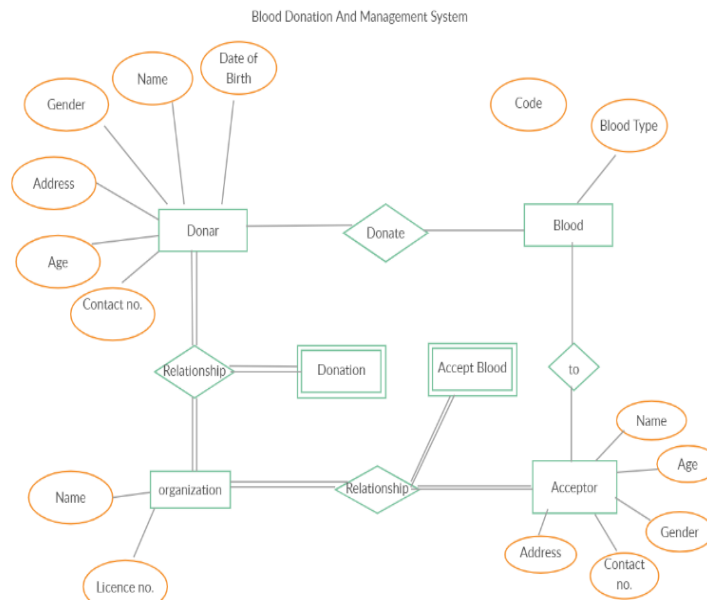
Blood_Bank_Data:

Serial_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:

Serial_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

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'Negative',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

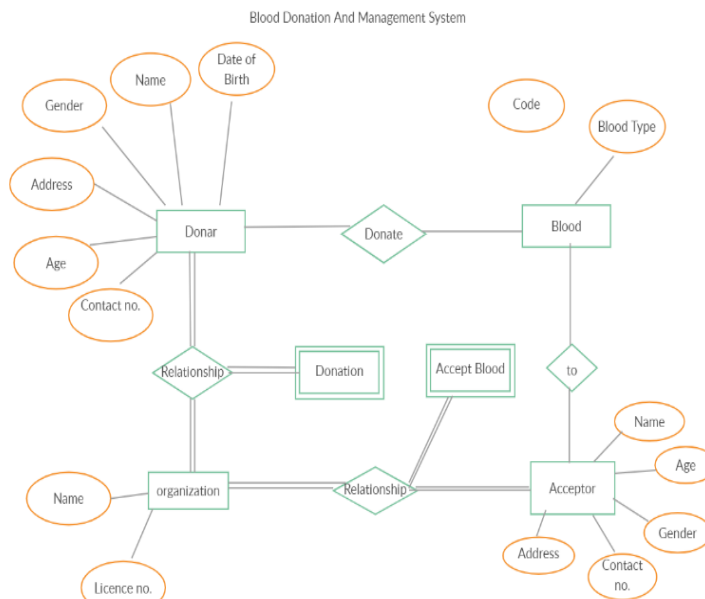
Datient_Data:

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:

Serial_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'Negative',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

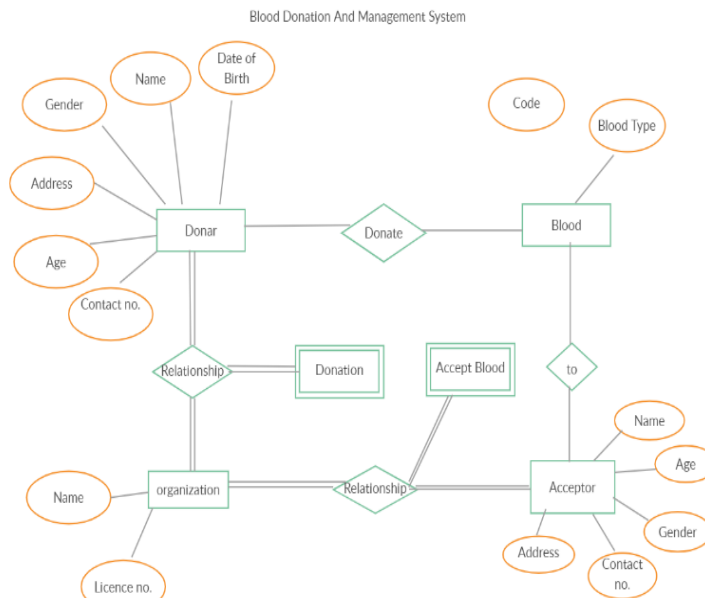
Datient_Data:

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:

Serial_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'Negative',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

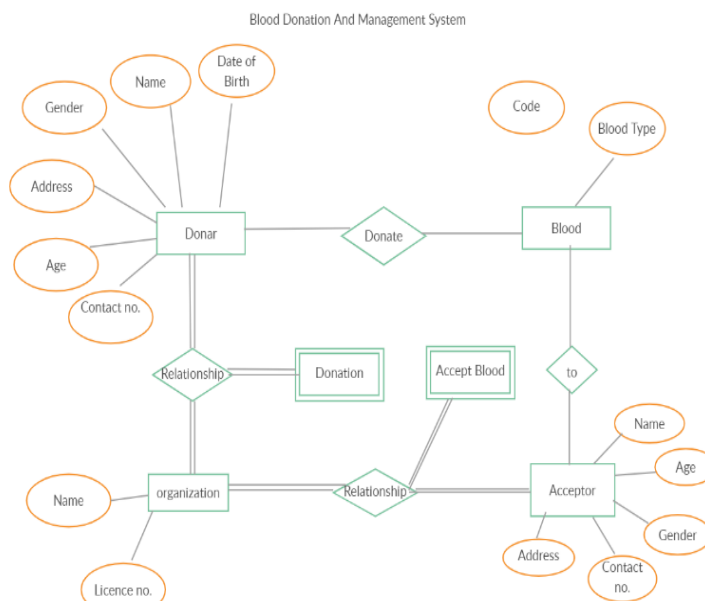
Datient_Data:

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:

Serial_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'Negative',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

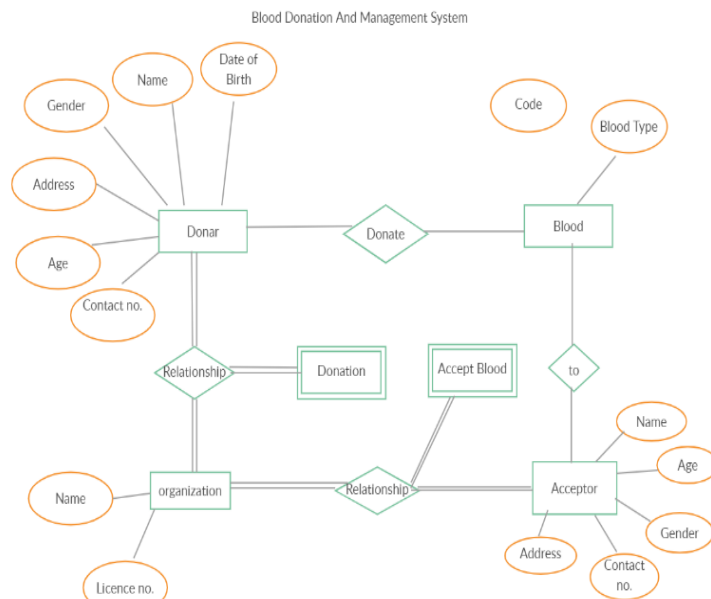
Datient_Data:

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

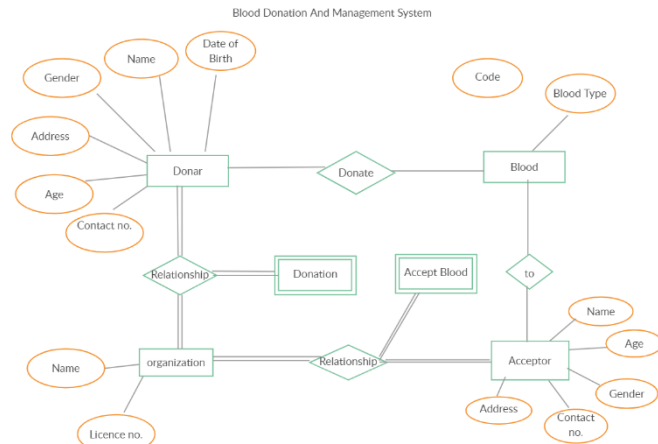
Blood_Bank_Data:

Serial_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

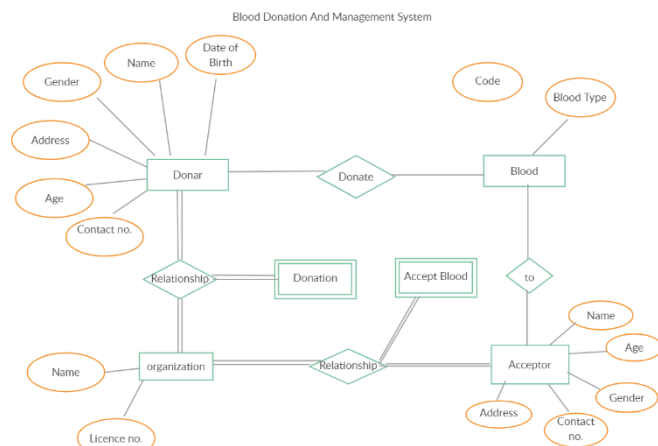
ER AND EER DIAGRAM OF WHOLE SEMESTER PROJECT:



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