INFORMATION OF ENTITIES

In total, we have eight entities, and information on each entity is mentioned below:-

1. Blood Donor: (Attributes - bd ID, bd name, bd sex, bd age, bd Bgroup, bd reg date, bd phNo)

The donor is the person who donates blood, on donation a donor ID (bd_ID) is generated and used as the primary key to identify the donor information. Other than that name, age, sex, blood group, phone number, and registration dates will be stored in the database under the Blood Donor entity.

2. Recipient: (Attributes - reci_ID, reci_name, reci_age, reci_Bgrp, reci_Bqnty, reci_sex, reci_reg_date, reci_phNo)

The Recipient is the person who receives blood from the blood bank, when blood is given to a recipient a recipient ID (reci_ID) is generated and used as the primary key for the recipient entity to identify the blood recipient's information. Along with it name, age, sex, blood group (needed), blood quantity(needed), phone number, and registration dates are also stored in the database under the recipient entity.

3. BB Manager: (Attributes - m ID, m Name, m phNo)

The blood bank manager is the person who takes care of the available blood samples in the blood bank, he is also responsible for handling blood requests from recipients and hospitals. The blood manager has a unique identification number (m_ID) used as the primary key along with the name and phone number of the blood bank manager will be stored in the database under the BB_Manager entity.

4. Recording Staff: (Attributes - reco ID, reco Name, reco phNo)

The recording staff is a person who registers the blood donor and recipients and the Recording_Staff entity has reco_ID which is the primary key along with the recorder's name and recorder's phone number will also be stored in the database under the Recording_Staff entity.

5. BloodSpecimen: (Attributes – specimen number, b group, status)

In the database, under the BloodSpecimen entity, we will store the information on blood samples that are available in the blood bank. In this entity specimen_number and b_group together will be the primary key along with the status attribute which will show if the blood is contaminated or not.

6. DiseaseFinder: (Attributes - dfind ID, dfind name, dfind PhNo)

In the database, under the DiseaseFinder entity, we will store the information of the doctor who checks the blood for any contamination. To store that information, we have a unique identification number (dfind_ID) as the primary key. Along with the name and phone number of the doctor will also be stored under the same entity.

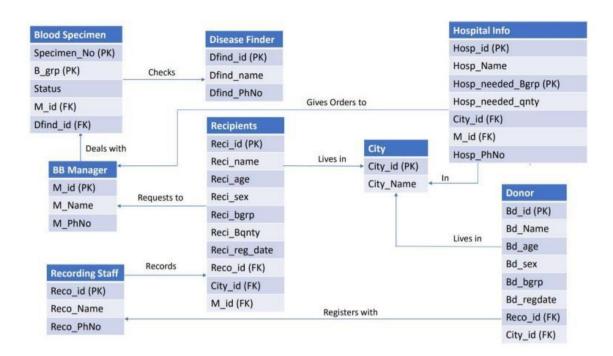
7. Hospital_Info: (Attributes - hosp_ID, hosp_name, hosp_needed_Bgrp, hosp_needed_Bqnty)

In the database, under the Hospital_Info entity, we will store the information of hospitals. In this hosp_ID and hosp_needed_Bgrp together makes the primary key. We will store the hospital name and the blood quantity required at the hospital.

8. city: (Attributes- city ID, city name)

This entity will store the information of cities where donors, recipients, and hospitals are present. A unique identification number (City_ID) will be used as the primary key to defying the information about the city. Along with ID city names will also be stored under this entity.

ER DIAGRAM WITH TABLES



TABLES AFTER NORMALIZATION

BB_Manager:

	M_id	mName	m_phNo
1	101	Jack	4693951392
2	102	Mark	4693804553
3	103	Dan	4693804552
4	104	Stacy	4693804551
5	105	Henry	4693804550
6	106	Steve	4694959671
7	107	Jason	4695959671
8	108	Stella	4663959671
9	109	Monika	4673959671
10	110	John	4693859671

Blood_Donor:

	Results	Messages	3						
	bd_ID	bd_name	bd_age	bd_sex	bd_Bgroup	bd_reg_date	reco_ID	City_ID	bd_phNo
1	150011	Pat	29	M	0+	2015-07-19	101412	1300	4693951232
2	150021	1 Shyam	42	F	A-	2015-12-24	101412	1300	4600001232
3	15012	Dan	44	M	AB+	2015-08-28	101212	1200	4611111232
4	150221	1 Mark	25	M	B+	2015-12-17	101212	1100	4622221232
5	160011	Abdul	35	E	A+	2016-11-22	101212	1100	4633331232
6	160031	Mike	33	F	AB-	2016-02-06	101212	1400	4644441232
7	160091	1 Carrol	24	M	B-	2016-10-15	101312	1500	4655551232
8	16010	1 Smith	22	M	0+	2016-01-04	101312	1200	4666661232
9	160301	Bisa	31	F	AB+	2016-09-10	101312	1200	4677771232
10	16040	Mark	29	M	0-	2016-12-17	101212	1200	4688881232

BloodSpecimen:

	Results Messag	b_group	status	dfind_ID	M_id
1	1001	B+	1	11	101
2	1002	0+	1	12	102
3	1003	AB+	1	11	102
4	1004	0-	1	13	103
5	1005	A+	0	14	101
6	1006	A-	1	13	104
7	1007	AB-	1	15	104
8	1008	AB-	0	11	105
9	1009	B+	1	13	105
10	1010	0+	0	12	105
11	1011	0+	1	13	103
12	1012	0-	1	14	102
13	1013	B-	1	14	102
14	1014	AB+	0	15	101

City:

	City_ID	City_name
1	1100	Dallas
2	1200	Austin
3	1300	Irving
4	1400	Houston
5	1500	Richardson
6	1600	Plano
7	1700	Frisco
В	1800	Arlington
9	1900	San Antonio
10	2000	Allen

DiseaseFinder:

	dfind_ID	dfind_name	dfind_PhNo
1	11	Peter	4693804223
2	12	Park	4693804223
3	13	Jerry	4693804223
4	14	Mark	4693804223
5	15	Monika	4693804223
6	16	Ram	4693804123
7	17	Swathi	4693804223
8	18	Gautham	4693804323
9	19	Ashwin	4693804423
10	20	Yash	4693804523

Hospital_Info_1:

	hosp_ID	hosp_name	City_ID	M_id	hosp_phNo
1	1	MayoClinic	1100	101	4611001232
2	2	CleavelandClinic	1200	103	4622001232
3	3	NYU	1300	103	4633001232
4	4	Baylor	1400	104	4644001232
5	5	Charlton	1800	103	4655001232
6	6	Greenoaks	1300	106	4666001232
7	7	Forestpark	1300	102	4677001232
8	8	Parkland	1200	106	4688001232
9	9	Pinecreek	1500	109	4699001232
10	10	WalnutHill	1700	105	4691001232

Hospital_Info_2:

	hosp_ID	hosp_name	hosp_needed_Bgrp	hosp_needed_qnty
1	1	MayoClinic	A+	20
2	1	MayoClinic	A-	40
3	1	MayoClinic	AB+	0
4	1	MayoClinic	AB-	20
5	1	MayoClinic	B-	10
6	2	CleavelandClinic	A+	40
7	2	CleavelandClinic	A-	10
8	2	CleavelandClinic	AB+	20
9	2	CleavelandClinic	AB-	10
10	2	CleavelandClinic	B+	0
11	2	CleavelandClinic	B-	30
12	3	NYU	A+	0
13	3	NYU	A-	0
14	3	NYU	AB+	0
15	3	NYU	AB-	0
16	3	NYU	B+	10
17	3	NYU	B-	20
18	4	Baylor	A+	10
19	4	Baylor	A-	40
20	7	Forestpark	B-	40
21	8	Parkland	B+	10
22	9	Pinecreek	AB-	20

Recipient:

	reci_ID	reci_name	reci_age	reci_Brgp	reci_Bqnty	reco_ID	City_ID	M_id	reci_sex	reci_reg_date
1	10001	Peter	25	B+	1.5	101212	1100	101	M	2015-12-17
2	10002	Dan	60	A+	1	101312	1100	102	M	2015-12-16
3	10003	Steve	35	AB+	0.5	101312	1200	102	M	2015-10-17
4	10004	Parker	66	B+	1	101212	1300	104	M	2016-11-17
5	10005	Jason	53	B-	1	101412	1400	105	M	2015-04-17
6	10006	Preetham	45	0+	1.5	101512	1500	105	M	2015-12-17
7	10007	Swetha	22	AB-	1	101212	1500	101	F	2015-05-17
8	10008	Swathi	25	B+	2	101412	1300	103	F	2015-12-14
9	10009	Lance	30	A+	1.5	101312	1100	104	M	2015-02-16
10	10010	Marsh	25	AB+	3.5	101212	1200	107	M	2016-10-17

Recording_Staff:

	Torritoria and the	Francisco de Artesano	Torono managaro
	reco_ID	reco_Name	reco_phNo
1	101012	Lekha	4044846553
2	101112	Mark	4045856553
3	101212	Walcot	4045806553
4	101312	Henry	4045806553
5	101412	Silva	4045806553
6	101512	Adrian	4045806553
7	101612	Mark	4045806553
8	101712	Abdul	4045816553
9	101812	Jerry	4045826553
10	101912	Tim	4045836553