

ITS 1012-DATABASE MANAGEMENT SYSTEM

1. Identify entities and attributes and list them down.

- Donator :
 - Donater_id
 - Name
 - Address
 - Gender
 - Contact

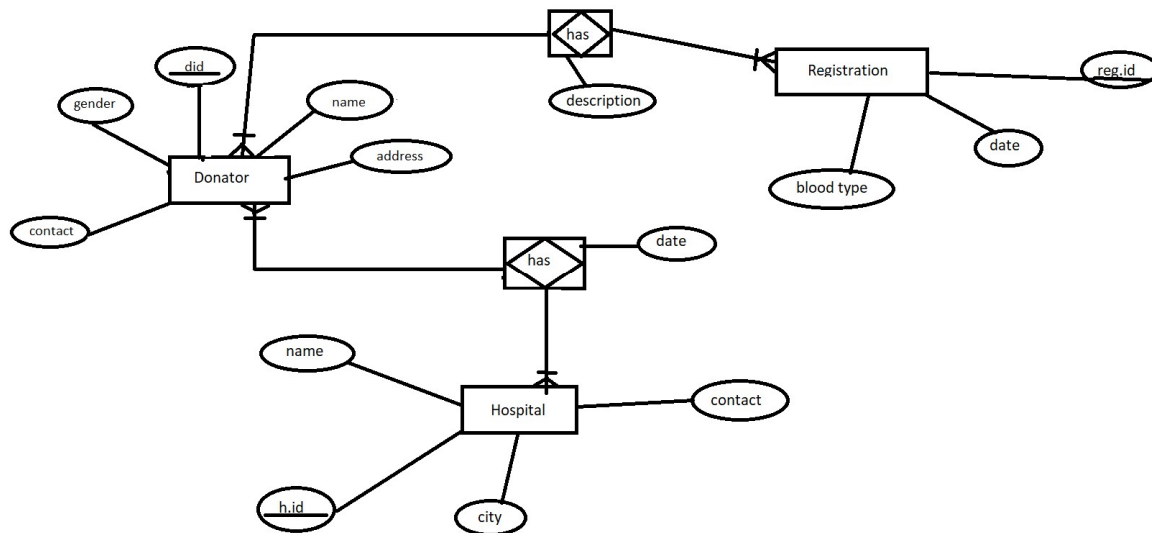
- Registration :
 - Reg_id
 - Date
 - Blood_group
 - Donator_id

- Donater_Registration_Details :
 - Description
 - Reg_id
 - Donator_id

- Hospital :
 - Hospital_id
 - Name
 - City
 - Contact
 - Donator_id

- Donator_Hospital_Details :
 - Date
 - Hospital_id
 - Donator_id

2. Draw an ERD for this scenario.



3. Convert your ERD to a relational schema.

Donator

| | | | | |
|------------|------|---------|--------|---------|
| <u>did</u> | name | address | gender | contact |
|------------|------|---------|--------|---------|

Registration

| | | | |
|--------------|------|-------------|------------|
| <u>regid</u> | date | Blood_Group | <u>did</u> |
|--------------|------|-------------|------------|

Donator_Registration_Details

| | | |
|------|--------------|------------|
| date | <u>regid</u> | <u>did</u> |
|------|--------------|------------|

Hospital

| | | | | |
|------------|------|------|---------|------------|
| <u>hid</u> | name | city | contact | <u>did</u> |
|------------|------|------|---------|------------|

Donator_Hospital_Details

| | | |
|------|------------|------------|
| date | <u>hid</u> | <u>did</u> |
|------|------------|------------|

4. Write down DDL queries for the ERD.

```
CREATE DATABASE IF NOT EXISTS Blood_Bank;  
USE Blood_Bank;
```

```
CREATE TABLE IF NOT EXISTS Donator(  
    did INT PRIMARY KEY,  
    name VARCHAR(45),  
    address TEXT,  
    gender ENUM('male','female'),  
    contact INT  
);
```

```
CREATE TABLE IF NOT EXISTS Registration(  
    regid INT,  
    date DATE,  
    blood_group TEXT,  
    did INT,  
    CONSTRAINT PRIMARY KEY(regid),  
    CONSTRAINT FOREIGN KEY(did)REFERENCES Donator(did)  
    ON DELETE CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE IF NOT EXISTS Doneter_Registration_Details(  
    description VARCHAR(45),  
    regid INT,  
    did INT,  
    CONSTRAINT FOREIGN KEY(regid)REFERENCES Registration(regid),  
    CONSTRAINT FOREIGN KEY(did)REFERENCES Donator(did)  
  
);
```

```
CREATE TABLE IF NOT EXISTS Hospital(  
    hid INT,  
    name VARCHAR(45),  
    city TEXT,  
    contact INT,  
    did INT,  
    CONSTRAINT PRIMARY KEY(hid),  
    CONSTRAINT FOREIGN KEY(did)REFERENCES Donator(did)  
    ON DELETE CASCADE ON UPDATE CASCADE  
  
);
```

```
CREATE TABLE IF NOT EXISTS Doneter_Hospital_Details(  
    date DATE,  
    hid INT,  
    did INT,
```

CONSTRAINT FOREIGN KEY(hid)REFERENCES Hospital(hid),
CONSTRAINT FOREIGN KEY(did)REFERENCES Donator(did)

);

DESC Donator;

DESC Registration;

DESC Donator_Registration_Details;

DESC Hospital;

DESC Donator_Hospital_Details;

Name: Frimeshani Mihishani Fernando

Batch: GDSE_63