

Relational schema

University(

University_ID:INT(255) [PK] NOT NULL,
University_Name:VARCHAR(255),
Address:VARCHAR(255),
Phone_Number:INT(10)

);

Users(

User_ID:INT(255) [PK] NOT NULL,
University_ID:INT(255) [FK to University.UniversityID],
Name:VARCHAR(255),
Address:VARCHAR(255),
Phone_Number:INT(10),
Medical_History:VARCHAR(255)

);

ImmunizationForm(

Form_ID:INT(255) [PK] NOT NULL,
User_ID:INT(255) [FK to Users.User_ID],
Doctor_ID:INT(255) [FK to Doctors.Doctor_ID],
Signed:Boolean,
Vaccine_1:VARCHAR(255),
Vaccine_2:VARCHAR(255),
Vaccine_1_Proof:BLOB,
Vaccine_2_Proof:BLOB

);

HealthInsurance(

Insurance_ID:INT(255) [PK] NOT NULL,
User_ID:INT(255) [FK to Users.UserID],
Injury_Claim:Boolean,
Dental_Claim:Boolean,
Start_Date:Date;
End_Date:Date

);

BloodBank

(

Blood_Bank_ID:INT(255) [PK] NOT NULL,
Name:VARCHAR(255),
Address:VARCHAR(255),
Phone_Number:INT(10),

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BloodTypes:VARCHAR(255),  
UnitsAvailable:VARCHAR(255),  
);
```

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Doctors(  
    Doctor_ID:INT(255) [PK] NOT NULL,  
    Name:VARCHAR(255),  
    Address:VARCHAR(255),  
    Phone:INT(10),  
);
```

```
Hospital(  
    Hospital_ID:INT(255) [PK] NOT NULL,  
    Name:VARCHAR(255),  
    Address:VARCHAR(255),  
    Phone:INT(10),  
    BloodBanks:VARCHAR(255),  
    University_ID:INT(255) [FK to University.University_ID],  
    MedicalStore_ID:INT(255) [FK to MedicalStore.MedicalStore_ID]  
);
```

```
MedicalStore(  
    MedicalStore_ID:INT(255) [PK] NOT NULL,  
    Name:VARCHAR(255),  
    Address:VARCHAR(255),  
    Phone:INT(10),  
    Hospital_ID:INT(255) [FK To Hospital.Hospital_ID],  
);
```

```
Appointment(  
    User_ID:INT(255) [FK To Users.User_ID],  
    Doctor_ID:INT(255) [FK To Doctors.Doctor_ID],  
    AppointmentDate DATE,  
    AppointmentTime VARCHAR(255)  
);
```

```
BloodRequests(  
    University_ID:INT(255) [FK To University.University_ID],  
    Blood_Bank_ID INT(255) [FK To BloodBank.Blood_Bank_ID]  
);
```

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DocImmunization(  
    Form_ID:INT(255) NOT NULL [FK To ImmunizationForm.Form_ID],
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        Doctor_ID:INT(255) [FK To Doctors.Doctor_ID]
    );

    Collaborate(
        Hospital_ID INT(255) [FK: To Hospital.Hospital_ID],
        University_ID INT(255) [FK: To University.University_ID]
    );

    Admits(
        User_ID INT(255) [FK To Users.User_ID],
        University_ID INT(255) [FK To University.University_ID]
    );

```

Assumptions:

One user has one immunisation record and one immunisation record is linked with one user.

One hospital has one or more blood banks associated with it and one blood bank is associated with one or more than one hospital.

A user is admitted with one university but a university can have one or more than one user.

One university has multiple doctors and a doctor is associated with only one university.

One user has one health insurance (either offered by the university or external health address) and a health insurance is assigned to one user.

One hospital has one medical store and one medical store is associated with one hospital.

One immunisation form is associated with one doctor but a doctor can have multiple immunisation forms to verify.

One user can schedule appointments with multiple doctors and a doctor can have appointments with multiple users.

One university collaborates with multiple hospitals whereas a hospital collaborates with only one university.

