DDL COMMANDS

```
CREATE DATABASE OrganDonationDB;
USE OrganDonationDB;
CREATE TABLE Manager (
 MGRID INT PRIMARY KEY AUTO INCREMENT,
 Name VARCHAR(100) NOT NULL,
 Location VARCHAR(100) NOT NULL
);
CREATE TABLE Blood (
 BloodID INT PRIMARY KEY AUTO INCREMENT,
 BloodGroup VARCHAR(10) NOT NULL,
 QuantityAvailable INT CHECK (QuantityAvailable >= 0),
 StorageLocation VARCHAR(100)
);
CREATE TABLE Hospital (
 HospitalID INT PRIMARY KEY AUTO_INCREMENT,
 Name VARCHAR(100) NOT NULL,
 Location VARCHAR(100),
 Contact VARCHAR(15),
 Manager VARCHAR(100)
);
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CREATE TABLE BloodBank (
  BloodBankID INT PRIMARY KEY AUTO INCREMENT,
  Name VARCHAR(100) NOT NULL,
  Location VARCHAR(100),
  Contact VARCHAR(15)
);
CREATE TABLE Clinical Analyst (
  Clinical Analyst ID INT PRIMARY KEY AUTO INCREMENT,
  Name VARCHAR(100) NOT NULL
);
CREATE TABLE Patient (
  PatientID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100) NOT NULL,
  Age INT CHECK (Age > 0),
  Gender ENUM('Male', 'Female', 'Other') NOT NULL,
  BloodGroup VARCHAR(10),
  Disease VARCHAR(100),
  OrganRequired VARCHAR(50),
  DateOfRequest DATE,
  Contact VARCHAR(15),
  Address TEXT
);
CREATE TABLE Donor (
  DonorID INT PRIMARY KEY AUTO_INCREMENT,
  Name VARCHAR(100) NOT NULL,
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Age INT CHECK (Age > 0),
  Gender ENUM('Male', 'Female', 'Other') NOT NULL,
  BloodGroup VARCHAR(10) NOT NULL,
  OrganType VARCHAR(50),
  Disease VARCHAR(100),
  DateOfDonation DATE,
  Contact VARCHAR(15),
  REGID INT NULL,
  BloodID INT NULL,
  QuantityDonated INT CHECK (QuantityDonated >= 0),
  FOREIGN KEY (BloodID) REFERENCES Blood(BloodID) ON DELETE SET NULL
);
CREATE TABLE RegistrationTeam (
  RegistrationID INT PRIMARY KEY AUTO_INCREMENT,
  DonorID INT,
  PatientID INT,
  RegistrationDate DATE,
  FOREIGN KEY (DonorID) REFERENCES Donor(DonorID) ON DELETE CASCADE,
  FOREIGN KEY (PatientID) REFERENCES Patient(PatientID) ON DELETE CASCADE
);
CREATE TABLE Organ (
  OrganID INT PRIMARY KEY AUTO INCREMENT,
  OrganType VARCHAR(50) NOT NULL,
  DonorID INT,
  PatientID INT,
  StorageLocation VARCHAR(100),
  Status ENUM('Available', 'Transplanted', 'Expired'),
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TissueType VARCHAR(50) NOT NULL,
  FOREIGN KEY (DonorID) REFERENCES Donor(DonorID),
  FOREIGN KEY (PatientID) REFERENCES Patient(PatientID)
);
CREATE TABLE OrganStorage (
  StorageID INT PRIMARY KEY AUTO INCREMENT,
  OrganID INT,
  HospitalID INT,
  Quantity INT CHECK (Quantity >= 0),
  FOREIGN KEY (OrganID) REFERENCES Organ(OrganID),
  FOREIGN KEY (HospitalID) REFERENCES Hospital(HospitalID)
);
CREATE TABLE Donation (
  DonationID INT PRIMARY KEY AUTO INCREMENT,
  DonorID INT,
  OrganID INT,
  BloodID INT,
  DonationDate DATE NOT NULL,
  FOREIGN KEY (DonorID) REFERENCES Donor(DonorID),
  FOREIGN KEY (OrganID) REFERENCES Organ(OrganID),
  FOREIGN KEY (BloodID) REFERENCES Blood(BloodID)
);
CREATE TABLE OrganTransplantCentre (
  TransplantID INT PRIMARY KEY AUTO INCREMENT,
  PatientID INT,
  OrganID INT,
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HospitalID INT,

TransplantDate DATE NOT NULL,

Status ENUM('Successful', 'Failed', 'Pending'),

TissueType VARCHAR(50) NOT NULL,

Location VARCHAR(100) NOT NULL,

Name VARCHAR(100) NOT NULL,

Organs VARCHAR(100) NOT NULL,

Quantity INT CHECK (Quantity >= 0),

CauseOfDonation TEXT,

FOREIGN KEY (PatientID) REFERENCES Patient(PatientID),

FOREIGN KEY (OrganID) REFERENCES Organ(OrganID),

FOREIGN KEY (HospitalID) REFERENCES Hospital(HospitalID)

);
```