**The SQL DDL to Create the Tables of the Hospital Schema:**

* **First, Creating the Specialty Table:**

CREATE TABLE SPECIALTY (

SpecialtyNumber CHAR (10) NOT NULL,

SpecialtyName VARCHAR (35) NOT NULL,

CONSTRAINT spec UNIQUE (SpecialtyNumber),

PRIMARY KEY (SpecialtyNumber));

Graphical user interface, text, application

Description automatically generated

A screenshot of the created Specialty table

* **Second, Creating the Allergy Table:**

CREATE TABLE ALLERGY (

AllergyID INTEGER GENERATED BY DEFAULT AS IDENTITY (START WITH 1, INCREMENT BY 1) NOT NULL,

AllergyName VARCHAR (35) NOT NULL,

CONSTRAINT allergy\_id UNIQUE (AllergyID),

PRIMARY KEY (AllergyID));

Graphical user interface, text, application

Description automatically generated

A screenshot of the created Allergy table

* **Third, Creating the Medicine Table:**

CREATE TABLE MEDICINE (

MedicineID INTEGER GENERATED BY DEFAULT AS IDENTITY (START WITH 1000, INCREMENT BY 1) NOT NULL,

MedicineName VARCHAR (35) NOT NULL,

CONSTRAINT med UNIQUE (MedicineID),

PRIMARY KEY (MedicineID));

Graphical user interface, text, application, email

Description automatically generated

A screenshot of the created Medicine table

* **Fourth, Creating the Doctor Table:**

CREATE TABLE DOCTOR (

DoctorID INTEGER GENERATED BY DEFAULT AS IDENTITY (START WITH 2000, INCREMENT BY 1) NOT NULL,

Name VARCHAR (35) NOT NULL,

Phone CHAR (20) NOT NULL,

SpecialtyNumber CHAR (10) NOT NULL,

SuperVisor INTEGER NOT NULL,

CONSTRAINT doctor\_details UNIQUE (DoctorID, SuperVisor, Phone),

PRIMARY KEY (DoctorID),

FOREIGN KEY (SuperVisor) REFERENCES DOCTOR (DoctorID) ON DELETE CASCADE,

FOREIGN KEY (SpecialtyNumber) REFERENCES SPECIALTY (SpecialtyNumber) ON UPDATE CASCADE);

Graphical user interface, application, table

Description automatically generated

A screenshot of the created Doctor table

* **Fifth, Creating the Patient Table:**

CREATE TABLE PATIENT (

PatientID INTEGER GENERATED BY DEFAULT AS IDENTITY (START WITH 3000, INCREMENT BY 1) NOT NULL,

Name VARCHAR (35) NOT NULL,

Phone VARCHAR (20) NOT NULL,

Email VARCHAR (30),

Adress VARCHAR (35) NOT NULL,

AddedDate DATE NOT NULL,

DoctorID INTEGER NOT NULL,

CONSTRAINT patient\_details UNIQUE (PatientID, DoctorID, Phone, Email),

PRIMARY KEY (PatientID),

FOREIGN KEY (DoctorID) REFERENCES DOCTOR (DoctorID) ON DELETE CASCADE);

Graphical user interface, application, table

Description automatically generated

A screenshot of the created Patient table

* **Sixth, Creating the Appointment Table:**

CREATE TABLE APPOINTMENT (

AppointmentID INTEGER GENERATED BY DEFAULT AS IDENTITY (START WITH 4000, INCREMENT BY 1) NOT NULL,

DoctorID INTEGER NOT NULL,

PatientID INTEGER NOT NULL,

AppointmentDate DATE NOT NULL,

BloodPressure VARCHAR (7) DEFAULT '120/80',

Weight DECIMAL (5, 2) NOT NULL,

TreatmentNotes VARCHAR (100) NOT NULL,

CONSTRAINT appointment\_details UNIQUE (AppointmentID, DoctorID, PatientID),

PRIMARY KEY (AppointmentID),

FOREIGN KEY (DoctorID) REFERENCES DOCTOR (DoctorID) ON DELETE CASCADE,

FOREIGN KEY (PatientID) REFERENCES PATIENT (PatientID) ON DELETE CASCADE);

Graphical user interface, text, application

Description automatically generated

A screenshot of the created Appointment table

* **Seventh, Creating the Patient\_Medicine Table:**

CREATE TABLE PATIENT\_MEDICINE (

AppointmentID INTEGER NOT NULL,

MedicineID INTEGER NOT NULL,

CONSTRAINT pat\_med UNIQUE (AppointmentID, MedicineID),

FOREIGN KEY (AppointmentID) REFERENCES APPOINTMENT (AppointmentID) ON UPDATE CASCADE,

FOREIGN KEY (MedicineID) REFERENCES MEDICINE (MedicineID) ON DELETE CASCADE);

Graphical user interface, text, application

Description automatically generated

A screenshot of the created Patient\_Medicine table

* **Eighth, Creating the Patient\_Allergy Table:**

CREATE TABLE PATIENT\_ALLERGY (

AllergyID INTEGER NOT NULL,

PatientID INTEGER NOT NULL,

CONSTRAINT pat\_allergy UNIQUE (AllergyID, PatientID),

FOREIGN KEY (AllergyID) REFERENCES ALLERGY (AllergyID) ON DELETE CASCADE,

FOREIGN KEY (PatientID) REFERENCES PATIENT (PatientID) ON DELETE CASCADE);

Graphical user interface, text, application

Description automatically generated

A screenshot of the created Patient\_Allergy table