**CREATE TABLE STATEMENTS**

**CREATE TABLE** USER

(

Username VARCHAR(15) **NOT NULL**,

Password VARCHAR(10) **NOT NULL**,

**PRIMARY KEY**(Username)

);

**CREATE TABLE** PATIENT

(

Patient\_Username VARCHAR(15) **NOT NULL**,

Password VARCHAR(10) **NOT NULL**,

Annual\_income VARCHAR(8)

DOB DATE, **NOT NULL**

Name VARCHAR(20) **NOT NULL**,

Home\_Phone INT(13) **NOT NULL,**

Gender VARCHAR(10) **NOT NULL**,

Address VARCHAR(20) **NOT NULL**,

Work\_Phone INT(10)

Weight INT(3) **NOT NULL**,

Height VARCHAR(5) **NOT NULL**,

ECnum INT(15) **NOT NULL**,

ECname VARCHAR(20) **NOT NULL**,

Card\_Number INT(16) **NOT NULL,**

Medicine\_Name VARCHAR(30) **NOT NULL,**

**PRIMARY KEY**(Patient\_Username)

**FOREIGN KEY**(Card\_Number) **REFERENCES** PAYMENT\_INFORMATION(Card\_Number),

**FOREIGN KEY**(Medicine\_Name) **REFERENCES** PRESCRIPTION(Medication\_Name)

);

**CREATE TABLE** ADMINISTRATIVE\_PERSONNEL

(

Admin\_Username VARCHAR(15) **NOT NULL**,

Password VARCHAR(10) **NOT NULL**,

**PRIMARY KEY**(Admin\_Username)

);

**CREATE TABLE** ALLERGIES

(

Patient\_Username VARCHAR(15) **NOT NULL**,

Allergies VARCHAR(15) **NOT NULL**,

**PRIMARY KEY**(Patient\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username)

);

**CREATE TABLE** DOCTOR

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Password VARCHAR(10) **NOT NULL**,

License\_no INT(15) **NOT NULL**,

DOB DATE, **NOT NULL,**

FName VARCHAR(20) **NOT NULL**,

LName VARCHAR(20) **NOT NULL**,

Work\_phone INT(10) **NOT NULL**,

Home\_Address VARCHAR(25) **NOT NULL**,

Speciality ENUM(‘General Physician’,

‘Heart Specialist’,

‘Eye Physician’,

‘Orthopedics’,

‘Psychiatry’,

‘Gynecologist’) **NOT NULL**,

Room\_num INT(5) **NOT NULL**,

**PRIMARY KEY**(Doc\_Username),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** USER(Username)

);

**CREATE TABLE** AVAILABILITY

(

Doc\_Username VARCHAR(15) **NOT NULL**,

To TIME **NOT NULL,**

Day DATE **NOT NULL,**

From TIME **NOT NULL,**

**PRIMARY KEY**(Doc\_Username),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username)

);

**CREATE TABLE** COMMUNICATES\_WITH

(

Doc\_Username\_1 VARCHAR(15) **NOT NULL**,

Doc\_Username\_2 VARCHAR(15) **NOT NULL**,

Content TEXT **NOT NULL,**

DateTime TIMESTAMP **NOT NULL,**

Status ENUM(“Read, “Unread”) **NOT NULL**,

**PRIMARY KEY**(Doc\_Username\_1, Doc\_Username\_2, DateTime),

**FOREIGN KEY**(Doc\_Username\_1) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Doc\_Username\_2) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(DateVisit) **REFERENCES** VISITS(DateVisit)

);

**CREATE TABLE** REQUEST\_APPOINTMENT

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

Date DATE **NOT NULL,**

ScheduledTime TIME **NOT NULL,**

**PRIMARY KEY**(Doc\_Username, Patient\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** DOCTOR(Patient\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username)

);

**CREATE TABLE** SEND\_MESSAGE\_TO\_DOC

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

Content TEXT **NOT NULL,**

Status ENUM(“Read, “Unread”) **NOT NULL**,

DateTime TIMESTAMP **NOT NULL,**

**PRIMARY KEY**(Doc\_Username, Patient\_Username, DateTime),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username),

**FOREIGN KEY**(DateVisit) **REFERENCES** VISITS(DateVisit)

);

**CREATE TABLE** RATES

(

DUsername VARCHAR(15) **NOT NULL**,

PUsername VARCHAR(15) **NOT NULL**,

Rating INT(1) **NOT NULL CHECK**(Rating >= 0 **AND** Rating <= 5),

**PRIMARY KEY**(DUsername, PUsername),

**FOREIGN KEY**(DUsername) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(PUsername) **REFERENCES** PATIENT(Patient\_Username) );

**CREATE TABLE** SEND\_MESSAGE\_TO\_PATIENT

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

Content TEXT **NOT NULL,**

Status ENUM(“Read, “Unread”) **NOT NULL**,

DateTime TIMESTAMP **NOT NULL,**

**PRIMARY KEY**(Doc\_Username, Patient\_Username, DateTime),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username),

**FOREIGN KEY**(DateVisit) **REFERENCES** VISITS(DateVisit),

);

**CREATE TABLE** PERFORMS

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

CPTCode VARCHAR(15) **NOT NULL,**

Surgery\_Start\_TimeTIME **NOT NULL,**

Surgery\_End\_TimeTIME **NOT NULL,**

Complications TEXT

Number\_of\_Assistants INT(2) **NOT NULL,**

Anesthesia\_Start\_Time TIME **NOT NULL,**

**PRIMARY KEY**(Doc\_Username, Patient\_Username, CPTCode),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username),

**FOREIGN KEY**(CPTCode) **REFERENCES** Surgery(CPTCode)

);

**CREATE TABLE** SURGERY

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

CPTCode VARCHAR(15) **NOT NULL,**

Cost\_of\_Surgery DECIMAL (8,2) **NOT NULL,**

Surgery\_Type VARCHAR(15) **NOT NULL,**

**PRIMARY KEY**(Doc\_Username, Patient\_Username, CPTCode),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username),

);

**CREATE TABLE** PRE-OPERATIVE\_MEDICATIONS

(

CPTCode VARCHAR(15) **NOT NULL,**

Preoperative\_Medications VARCHAR(30) **NOT NULL,**

**PRIMARY KEY** (Preoperative\_Medications, CPTCode),

**FOREIGN KEY**(CPTCode) **REFERENCES** Surgery(CPTCode)

);

**CREATE TABLE** VISITS

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

DateVisit DATE **NOT NULL,**

Billing\_Amount DECIMAL (8,2) **NOT NULL,**

Systolic\_Pressure INT(3) **NOT NULL,**

Diastolic\_Pressure INT(3) **NOT NULL,**

**PRIMARY KEY**(Doc\_Username, Patient\_Username, DateVisit),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username)

);

**CREATE TABLE** DIAGNOSIS

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

DateVisit DATE **NOT NULL,**

Diagnosis VARCHAR(20) **NOT NULL,**

**PRIMARY KEY**(Doc\_Username,Patient\_Username, DateVisit, Diagnosis),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username),

**FOREIGN KEY**(DateVisit) **REFERENCES** VISITS(DateVisit),

);

**CREATE TABLE** PAYMENT\_INFORMATION

(

Patient\_Username VARCHAR(15) **NOT NULL**,

CardNumber INT(12) **NOT NULL,**

CardHolder\_Name VARCHAR(30) **NOT NULL,**

CVV INT(4 3?) **NOT NULL,**

Type VARCHAR(8) **NOT NULL,**

Date\_of\_Expiry DATE **NOT NULL,**

**PRIMARY KEY**(Patient\_Username, CardNumber),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username)

);

**CREATE TABLE** PRESCRIPTION

(

Doc\_Username VARCHAR(15) **NOT NULL**,

Patient\_Username VARCHAR(15) **NOT NULL**,

DateVisit DATE **NOT NULL**,

Medication\_Name VARCHAR(20) **NOT NULL**,

Notes VARCHAR(50) **NOT NULL**,

Dosage INT **NOT NULL**,

Duration INT **NOT NULL**,

**PRIMARY KEY**(Doc\_Username, Patient\_Username, DateVisit, Medication\_Name),

**FOREIGN KEY**(Doc\_Username) **REFERENCES** DOCTOR(Doc\_Username),

**FOREIGN KEY**(Patient\_Username) **REFERENCES** PATIENT(Patient\_Username),

**FOREIGN KEY**(DateVisit) **REFERENCES** VISITS(DateVisit)

);