Below are the CREATE TABLE statements used to make the twelve tables:

```
//* >>>>>>>>>>>>>>>>>>
//* CREATE PATIENT TABLE
//* <<<<<<<<<<<<<<<<<
CREATE TABLE patient (
  patientId INTEGER NOT NULL GENERATED BY DEFAULT AS IDENTITY
        (START WITH 0000005, INCREMENT BY 1, CACHE 20),
  userName CHAR(10) NOT NULL,
  firstName CHAR(20),
 lastName CHAR(20),
  dateOfBirth DATE,
 insCardNumber CHAR(10),
  address CHAR(20),
  city
        CHAR(20),
  postcode CHAR(10),
  phonemobile Char(20),
 emailaddress Char(50),
 PRIMARY KEY(patientId))
//* >>>>>>>>>>>>>>
//* CREATE USER TABLE
//* <<<<<<<<<<<<<<<<<<
CREATE TABLE user (
 patientId INTEGER NOT NULL,
 userName
            CHAR(10) NOT NULL,
 userPassword CHAR(32),
 PRIMARY KEY(userName),
 FOREIGN KEY(patientId)
   REFERENCES patient (patientId)
   ON DELETE CASCADE)
//* >>>>>>>>>>>>>>>>>>
//* CREATE medication TABLE
//* <<<<<<<<<<<<<<<<<<<
CREATE TABLE medication (
 medicationId INTEGER NOT NULL GENERATED BY DEFAULT AS IDENTITY
        (START WITH 1000005, INCREMENT BY 1, CACHE 20),
  patientId INTEGER NOT NULL,
  drugName CHAR(50),
  strength CHAR(20),
           SMALLINT,
  amount
  route
         CHAR(20),
 frequency CHAR(20),
 identifier CHAR(20),
         CHAR(2),
 type
 PRIMARY KEY(medicationId),
 FOREIGN KEY(patientId)
   REFERENCES patient (patientId)
   ON DELETE CASCADE)
//* >>>>>>>>>>>>>>
//* CREATE meditation TABLE
//* <<<<<<<<<<<<<<<<<<
CREATE TABLE meditation (
```

```
meditationId INTEGER NOT NULL GENERATED BY DEFAULT AS IDENTITY
        (START WITH 2000002, INCREMENT BY 1, CACHE 20),
  patientId INTEGER NOT NULL,
  name
          CHAR(50),
         CHAR(20),
  type
        CHAR(20),
 relief
          CHAR(20),
 posture
 frequency CHAR(20),
 PRIMARY KEY(meditationId),
 FOREIGN KEY(patientId)
   REFERENCES patient (patientId)
   ON DELETE CASCADE)
//*
//* >>>>>>>>>>>>>
//* CREATE prescription TABLE
//* <<<<<<<<<<<<<<<<<<<
CREATE TABLE prescription (
 prescriptionId INTEGER NOT NULL,
  patientId INTEGER NOT NULL,
 pDateTime TIMESTAMP NOT NULL,
 taken
         CHAR(1),
 PRIMARY KEY(patientId, prescriptionId, pDateTime))
//* >>>>>>>>>>>>>
//* CREATE threshold TABLE
//* <<<<<<<<<<<<<<<<<<
CREATE TABLE threshold (
  patientId INTEGER NOT NULL,
 heartRate SMALLINT,
 bloodPressure CHAR(10),
 PRIMARY KEY(patientId))
//* >>>>>>>>>>>>>>>>>>
//* CREATE heartrate TABLE
//* <<<<<<<<<<<<<<<<<<<
CREATE TABLE heartrate (
  patientId INTEGER NOT NULL,
 hrDateTime TIMESTAMP NOT NULL,
 heartRate SMALLINT,
 PRIMARY KEY(patientId, hrDateTime))
//* >>>>>>>>>>>>>>
//* CREATE bloodpressure TABLE
//* <<<<<<<<<<<<<<<<<<<
CREATE TABLE bloodpressure (
  patientId INTEGER NOT NULL,
  bpDateTime TIMESTAMP NOT NULL,
 bloodPressure CHAR(10),
 PRIMARY KEY(patientId, bpDateTime))
//* >>>>>>>>>>>>>
//* CREATE session TABLE
//* <<<<<<<<<<<<<<<<<<
```

```
CREATE TABLE session (
  patientId INTEGER NOT NULL,
  sessionStart TIMESTAMP NOT NULL,
  sessionEnd TIMESTAMP NOT NULL,
  medAvg
           DOUBLE,
          DOUBLE,
  attnAvg
          DOUBLE,
  blinkAvg
          DOUBLE,
 luxAvg
 latitudeStart VARCHAR(15),
  longitudeStart VARCHAR(15),
  soundAvg
           DOUBLE,
 deltaAvg
           DOUBLE,
  thetaAvg
           DOUBLE,
  lowAlphaAvg DOUBLE,
  highAlphaAvg DOUBLE,
  lowBetaAvg DOUBLE,
  highBetaAvg DOUBLE,
  lowGammaAvg DOUBLE,
  midGammaAvg DOUBLE,
          VARCHAR(255),
  notes
          VARCHAR(255),
 csvURL
 PRIMARY KEY(patientId, sessionStart, sessionEnd))
//* >>>>>>>>>>>>>
//* CREATE appointments TABLE
//* <<<<<<<<<<<<<<<<<<
CREATE TABLE APPOINTMENTS (
 PATIENTID INTEGER NOT NULL,
 FIRSTNAME CHAR(20) NOT NULL,
 LASTNAME CHAR(20) NOT NULL,
 APPT_DATE DATE NOT NULL,
 APPT_TIME TIME NOT NULL,
 DR_NAME CHAR(30),
 MED FIELD CHAR(20),
 OFF NAME CHAR(30),
 OFF_ADDR CHAR(30),
 OFF_CITY CHAR(20),
 OFF_STATE CHAR(2),
 OFF_ZIP CHAR(10),
 DESCRIPTION VARCHAR(50),
 PRIMARY KEY(PATIENTID, APPT_DATE, APPT_TIME))
//* >>>>>>>>>>>>>
//* CREATE allergies TABLE
CREATE TABLE ALLERGIES (
 PATIENTID INTEGER NOT NULL,
 START DATE NOT NULL,
 STOP DATE,
 ENCOUNTER VARCHAR(40),
 CODE INTEGER NOT NULL,
 DESCRIPTION VARCHAR(50),
 PRIMARY KEY(PATIENTID, CODE))
//* >>>>>>>>>>>>>>
//* CREATE OBSERVATIONS TABLE
//* <<<<<<<<<<<<<<<<<<
```

CREATE TABLE OBSERVATIONS (
PATIENTID INTEGER NOT NULL,
DATEOFOBSERVATION DATE NOT NULL,
CODE CHAR(8) NOT NULL,
DESCRIPTION VARCHAR(75),
NUMERICVALUE DECIMAL(10, 2),
UNITS VARCHAR(22),
CHARACTERVALUE VARCHAR(30),
PRIMARY KEY(PATIENTID, DATEOFOBSERVATION, CODE))