--as we used sqliteonline, we did not need the following 2 commands.

-- Create the database

--CREATE DATABASE DentalClinic;

-- Use the created database

--USE DentalClinic;

-- Create tables

CREATE TABLE Procedure (

Procedure\_ID INT PRIMARY KEY,

Procedure\_Name VARCHAR(255),

Standard\_Per\_Unit\_Charges DECIMAL(10,2),

Date\_Performed DATE,

Comments VARCHAR(255)

);

CREATE TABLE Equipment (

Equipment\_ID INT PRIMARY KEY,

Equipment\_Name VARCHAR(255),

Date\_Aquired DATE,

Date\_Disposed DATE,

Comments VARCHAR(255)

);

CREATE TABLE Address (

Address\_ID INT PRIMARY KEY,

Apt\_Number INT,

Street\_Address VARCHAR(255),

City VARCHAR(255),

State CHAR(2),

Zip\_Code CHAR(5),

Type VARCHAR(50)

);

CREATE TABLE Insurance (

INSURANCE\_ID INT PRIMARY KEY,

Company VARCHAR(50),

Comments VARCHAR(255)

);

CREATE TABLE Insurance\_Policy (

Policy\_ID INT PRIMARY KEY,

Payment\_Schedule VARCHAR(255),

Policy\_Number INT,

Insurance\_ID INT,

FOREIGN KEY(Insurance\_ID) REFERENCES Insurance(Insurance\_ID)

);

CREATE TABLE Insurance\_Policy\_Name (

Policy\_Number INT PRIMARY KEY,

Policy\_Name VARCHAR(255)

);

CREATE TABLE Policy\_Naming\_Mapping (

Policy\_ID INT,

Policy\_Number INT,

PRIMARY KEY (Policy\_ID, Policy\_Number),

FOREIGN KEY(Policy\_ID) REFERENCES Policy(Policy\_ID)

);

CREATE TABLE Payment (

Payment\_ID INT PRIMARY KEY,

Payment\_date DATE,

Type VARCHAR(50),

Insurance\_ID INT,

SSN CHAR(9),

FOREIGN KEY(SSN) REFERENCES Patient(SSN),

FOREIGN KEY(Insurance\_ID) REFERENCES Insurance(Insurance\_ID)

);

CREATE TABLE Billing (

Billing\_ID INT PRIMARY KEY,

Billing\_date DATE,

Invoice\_name VARCHAR(255),

Procedure\_ID INT,

FOREIGN KEY(Procedure\_ID) REFERENCES Procedure(Procedure\_ID)

);

CREATE TABLE Licensure (

Licensure\_ID INT PRIMARY KEY,

Date\_Recieved DATE,

Expiration\_Date DATE,

Licensure\_Provider VARCHAR(255),

SSN CHAR(9),

FOREIGN KEY(SSN) REFERENCES Practitioner(SSN)

);

CREATE TABLE Appointment (

Appointment\_ID INT PRIMARY KEY,

Appointment\_date DATE,

IsCanceled BOOLEAN,

Comments VARCHAR(255),

Type VARCHAR(255),

Reason VARCHAR(255),

EmployeeSSN CHAR(9),

PatientSSN CHAR(9),

FOREIGN KEY(EmployeeSSN) REFERENCES Employee(SSN),

FOREIGN KEY(PatientSSN) REFERENCES Patient(SSN)

);

CREATE TABLE Review (

Review\_ID INT PRIMARY KEY,

Review\_date DATE,

Rating INT,

Comments VARCHAR(255),

Appointment\_ID INT,

FOREIGN KEY(Appointment\_ID) REFERENCES Appointment(Appointment\_ID)

);

CREATE TABLE Person\_has\_Insurance (

SSN CHAR(9),

Insurance\_ID INT,

PRIMARY KEY (SSN, Insurance\_ID),

FOREIGN KEY(SSN) REFERENCES Person(SSN),

FOREIGN KEY(Insurance\_ID) REFERENCES Insurance(Insurance\_ID)

);

CREATE TABLE Person\_has\_Address (

SSN CHAR(9),

Address\_ID INT,

PRIMARY KEY (SSN, Address\_ID),

FOREIGN KEY(SSN) REFERENCES Person(SSN),

FOREIGN KEY(Address\_ID) REFERENCES Address(Address\_ID)

);

CREATE TABLE Payment\_covers\_Billing (

Payment\_ID INT,

Billing\_ID INT,

Amount DECIMAL(10,2),

PRIMARY KEY (Payment\_ID, Billing\_ID),

FOREIGN KEY(Payment\_ID) REFERENCES Payment(Payment\_ID),

FOREIGN KEY(Billing\_ID) REFERENCES Billing(Billing\_ID)

);

CREATE TABLE Procedure\_requires\_Equipment (

Procedure\_ID INT,

Equipment\_ID INT,

Number\_Of INT,

PRIMARY KEY (Procedure\_ID, Equipment\_ID),

FOREIGN KEY(Procedure\_ID) REFERENCES Procedure(Procedure\_ID),

FOREIGN KEY(Equipment\_ID) REFERENCES Equipment(Equipment\_ID)

);

CREATE TABLE Procedure\_requires\_Licensure (

Procedure\_ID INT,

Licensure\_ID INT,

PRIMARY KEY (Procedure\_ID, Licensure\_ID),

FOREIGN KEY(Procedure\_ID) REFERENCES Procedure(Procedure\_ID),

FOREIGN KEY(Licensure\_ID) REFERENCES Licensure(Licensure\_ID)

);

CREATE TABLE Practitioner\_can\_perform\_Procedure (

SSN CHAR(9),

Procedure\_ID INT,

ProcedureCount INT,

PRIMARY KEY (SSN, Procedure\_ID),

FOREIGN KEY(Procedure\_ID) REFERENCES Procedure(Procedure\_ID),

FOREIGN KEY(SSN) REFERENCES Practitioner(SSN)

);

CREATE TABLE Practitioner\_uses\_Equipment (

SSN CHAR(9),

Equipment\_ID INT,

PRIMARY KEY (SSN, Equipment\_ID),

FOREIGN KEY(Equipment\_ID) REFERENCES Equipment(Equipment\_ID),

FOREIGN KEY(SSN) REFERENCES Practitioner(SSN)

);

CREATE TABLE Patient\_creates\_Review (

SSN CHAR(9),

Review\_ID INT,

PRIMARY KEY (SSN, Review\_ID),

FOREIGN KEY(Review\_ID) REFERENCES Review(Review\_ID),

FOREIGN KEY(SSN) REFERENCES Patient(SSN)

);

CREATE TABLE Medical\_History (

Medical\_History\_ID INT PRIMARY KEY,

SSN CHAR(9),

FOREIGN KEY(SSN) REFERENCES Patient(SSN)

);

CREATE TABLE Medication (

Medical\_History\_ID INT,

Date\_Prescribed VARCHAR(255),

Medication\_Name VARCHAR(255),

Frequency\_Used VARCHAR(255),

Duration\_Used VARCHAR(255),

PRIMARY KEY (Medical\_History\_ID, Medication\_Name)

);

CREATE TABLE Medical\_Condition (

Medical\_History\_ID INT,

Condition\_Name VARCHAR(255),

Description VARCHAR(255),

PRIMARY KEY (Medical\_History\_ID, Condition\_Name)

);

CREATE TABLE Allergy (

Medical\_History\_ID INT,

Allergy\_Name VARCHAR(255),

PRIMARY KEY (Medical\_History\_ID, Allergy\_Name)

);

CREATE TABLE Person (

SSN CHAR(9) PRIMARY KEY,

First VARCHAR(255),

Middle VARCHAR(255),

Last VARCHAR(255),

Email VARCHAR(255),

DOB DATE,

Gender CHAR(1),

Phone CHAR(10)

);

CREATE TABLE Employee (

SSN CHAR(9) PRIMARY KEY,

Salary DECIMAL(10,2),

Date\_Hired DATE,

FOREIGN KEY(SSN) REFERENCES Person(SSN)

);

CREATE TABLE Practitioner (

SSN CHAR(9) PRIMARY KEY,

Type VARCHAR(255),

FOREIGN KEY(SSN) REFERENCES Employee(SSN)

);

CREATE TABLE Patient (

SSN CHAR(9) PRIMARY KEY,

Last\_XRay DATE,

Signed\_HIPAA BOOLEAN,

Last\_Information\_Update DATE,

Emergency\_Contact\_Name VARCHAR(255),

Emergency\_Contact\_Phone\_Number CHAR(10),

FOREIGN KEY(SSN) REFERENCES Person(SSN)

);

CREATE TABLE Credit\_Card (

Payment\_ID INT PRIMARY KEY,

Expiration\_Date DATE,

Number VARCHAR(16),

CVV CHAR(3),

Network VARCHAR(50)

);

CREATE TABLE Check\_T (

Payment\_ID INT PRIMARY KEY,

Memo VARCHAR(255),

Routing\_Number VARCHAR(9),

Account\_Number VARCHAR(20),

Check\_Number INT

);