Task 5.1 b)

CREATE TABLE hospitals (  
  name VARCHAR(20) PRIMARY KEY,  
  type VARCHAR(7)  
    CHECK (type in ('private', 'public'))  
);  

CREATE TABLE doctors (  
  ssn INT NOT NULL,  
  name VARCHAR(30),  
  salary INT,  
  hospital VARCHAR(20),  
  PRIMARY KEY (ssn),  
  FOREIGN KEY (hospital) REFERENCES hospitals,  
  CHECK (salary BETWEEN 30000 AND 100000)  
);  

CREATE TABLE specialisations (  
  doctor INT,  
  area VARCHAR(10),  
  PRIMARY KEY (doctor, area),  
  FOREIGN KEY (doctor) REFERENCES doctors  
);  

CREATE TABLE patients (  
  id INT PRIMARY KEY,  
  name VARCHAR(30),  
  insurance VARCHAR(50),  
  city VARCHAR(100),  
  street VARCHAR(100),  
  zip VARCHAR(100),  
  hospital VARCHAR(20),  
  FOREIGN KEY (hospital) REFERENCES hospitals  
);  

CREATE TABLE treatments (  
  doctor INT NOT NULL,  
  patient INT NOT NULL,  
  startDate DATE,  
  endDate DATE,  
  PRIMARY KEY (doctor, patient),  
  FOREIGN KEY (doctor) REFERENCES doctors,  
  FOREIGN KEY (patient) REFERENCES patients(id)  
);