*Database Schema:*

Person (person\_id, name, age, gender, address)

Staff (staff\_id, role, person\_id)

Patient (patient\_id, person\_id)

Doctor (doctor\_id, department, staff\_id)

Nurse (nurse\_id, staff\_id,shift)

Rooms (room\_id, floor, type)

Admittance(admittance\_id, patient\_id, room\_id, admission\_date, discharge\_date)

Surgeries (surgery\_id, surgery\_name)

Operation(operation\_id,patient\_id,doctor\_id,surgery\_id,operation\_date)

*DDL Commands to create table with necessary constraints:*

*drop table person;*

*drop table staff;*

*drop table doctor;*

*drop table nurse;*

*drop table patient;*

*drop table rooms;*

*drop table admittance;*

*drop table surgeries;*

*drop table operation;*

CREATE TABLE Person (

person\_id INT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

age INT,

gender VARCHAR(10),

address VARCHAR(255)

);

CREATE TABLE Staff (

staff\_id INT PRIMARY KEY,

role VARCHAR(20),

person\_id INT REFERENCES Person(person\_id)

);

CREATE TABLE Doctor (

doctor\_id INT PRIMARY KEY,

department VARCHAR(50),

staff\_id INT REFERENCES Staff(staff\_id)

);

CREATE TABLE Nurse (

nurse\_id INT PRIMARY KEY,

staff\_id INT REFERENCES Staff(staff\_id),

shift VARCHAR(10)

);

CREATE TABLE Patient (

patient\_id INT PRIMARY KEY,

person\_id INT REFERENCES Person(person\_id)

);

CREATE TABLE Rooms (

room\_id INT PRIMARY KEY,

floor INT,

type VARCHAR(20)

);

CREATE TABLE Admittance (

admittance\_id INT PRIMARY KEY,

patient\_id INT REFERENCES Patient(patient\_id),

room\_id INT REFERENCES Rooms(room\_id),

admission\_date DATE,

discharge\_date DATE

);

CREATE TABLE Surgeries (

surgery\_id INT PRIMARY KEY,

surgery\_name VARCHAR(50)

);

CREATE TABLE Operation (

operation\_id INT PRIMARY KEY,

patient\_id INT REFERENCES Patient(patient\_id),

doctor\_id INT REFERENCES Doctor(doctor\_id),

surgery\_id INT REFERENCES Surgeries(surgery\_id),

operation\_date DATE

);