use appsdDB;

CREATE TABLE Location (

id INT PRIMARY KEY,

phone VARCHAR(20),

address VARCHAR(100),

city VARCHAR(50),

zipCode VARCHAR(10),

state VARCHAR(50)

);

CREATE TABLE Surgery (

id INT PRIMARY KEY,

type VARCHAR(100),

location\_id INT,

FOREIGN KEY (location\_id) REFERENCES Location(id)

);

CREATE TABLE Dentist (

id INT PRIMARY KEY,

firstname VARCHAR(100),

lastname VARCHAR(100),

phone\_number VARCHAR(100),

email VARCHAR(100),

specialization VARCHAR(100)

);

CREATE TABLE Patient (

id INT PRIMARY KEY,

dateOfBirth DATE,

mailing\_address VARCHAR(255)

);

CREATE TABLE Office\_Manager (

id INT PRIMARY KEY,

firstname VARCHAR(100),

lastname VARCHAR(100),

phone\_number VARCHAR(100),

email VARCHAR(100),

);

CREATE TABLE Appointment (

id INT PRIMARY KEY,

patient\_id INT,

dentist\_id INT,

surgery\_id INT,

date\_time DATETIME,

status VARCHAR(50),

FOREIGN KEY (patient\_id) REFERENCES Patient(id),

FOREIGN KEY (dentist\_id) REFERENCES Dentist(id),

FOREIGN KEY (surgery\_id) REFERENCES Surgery(id)

);

CREATE TABLE Billing (

id INT PRIMARY KEY,

patient\_id INT,

surgery\_id INT,

status VARCHAR(50),

FOREIGN KEY (patient\_id) REFERENCES Patient(id),

FOREIGN KEY (surgery\_id) REFERENCES Surgery(id)

);

INSERT INTO Location (id, phone, address, city, zipCode, state)

VALUES (1, '123-456-7890', '123 Main St', 'City1', '12345', 'State1'),

(2, '987-654-3210', '456 Elm St', 'City2', '54321', 'State2'),

(3, '555-123-4567', '789 Oak St', 'City3', '67890', 'State3'),

(4, '777-888-9999', '321 Maple St', 'City4', '98765', 'State4'),

(5, '444-555-6666', '654 Pine St', 'City5', '13579', 'State5');

INSERT INTO Surgery (id, type, location\_id)

VALUES (1, 'Orthodontics', 1),

(2, 'Endodontics', 2),

(3, 'Oral Surgery', 3),

(4, 'Periodontics', 4),

(5, 'Pediatric Dentistry', 5);

INSERT INTO Dentist (id, firstname, lastname, phone, email, specialization)

VALUES (1, 'John', 'Doe', '123-456-7890', 'john.doe@example.com', 'Orthodontics'),

(2, 'Jane', 'Smith', '987-654-3210', 'jane.smith@example.com', 'Endodontics'),

(3, 'Michael', 'Johnson', '555-123-4567', 'michael.johnson@example.com', 'Oral Surgery'),

(4, 'Emily', 'Williams', '777-888-9999', 'emily.williams@example.com', 'Periodontics'),

(5, 'David', 'Brown', '444-555-6666', 'david.brown@example.com', 'Pediatric Dentistry');

INSERT INTO Patient (id, dateOfBirth, mailing\_address)

VALUES (1, '1990-05-15', '123 Main St, City1, State1, 12345'),

(2, '1985-08-25', '456 Elm St, City2, State2, 54321'),

(3, '1978-12-10', '789 Oak St, City3, State3, 67890'),

(4, '1995-03-28', '321 Maple St, City4, State4, 98765'),

(5, '1982-09-03', '654 Pine St, City5, State5, 13579');

INSERT INTO Appointment (id, patient\_id, dentist\_id, surgery\_id, date\_time, status)

VALUES (1, 1, 1, 1, '2023-04-15 10:00:00', 'Scheduled'),

(2, 2, 2, 2, '2023-04-20 14:30:00', 'Confirmed'),

(3, 3, 3, 3, '2023-04-25 09:15:00', 'Cancelled'),

(4, 4, 4, 4, '2023-05-02 11:45:00', 'Confirmed'),

(5, 5, 5, 5, '2023-05-10 16:00:00', 'Scheduled');

INSERT INTO Billing (id, patient\_id, surgery\_id, status)

VALUES (1, 1, 1, 'Paid'),

(2, 2, 2, 'Unpaid'),

(3, 3, 3, 'Paid'),

(4, 4, 4, 'Unpaid'),

(5, 5, 5, 'Paid');

INSERT INTO Office\_Manager (id, firstname, lastname, phone\_number, email)

VALUES (1, 'John', 'Doe', '123-456-7890', 'john.doe@example.com'),

(2, 'Jane', 'Smith', '987-654-3210', 'jane.smith@example.com');

SELECT \*

FROM Dentist

ORDER BY lastname ASC;

SELECT A.id AS appointment\_id, A.date\_time AS appointment\_date\_time,

P.id AS patient\_id, P.firstname AS patient\_firstname, P.lastname AS patient\_lastname

FROM Appointment A

JOIN Patient P ON A.patient\_id = P.id

WHERE A.dentist\_id = 1;

SELECT A.id AS appointment\_id, A.date\_time AS appointment\_date\_time,

P.id AS patient\_id, P.firstname AS patient\_firstname, P.lastname AS patient\_lastname,

D.id AS dentist\_id, D.firstname AS dentist\_firstname, D.lastname AS dentist\_lastname,

S.id AS surgery\_id, S.type AS surgery\_type,

L.id AS location\_id, L.address AS location\_address, L.city AS location\_city

FROM Appointment A

JOIN Patient P ON A.patient\_id = P.id

JOIN Dentist D ON A.dentist\_id = D.id

JOIN Surgery S ON A.surgery\_id = S.id

JOIN Location L ON S.location\_id = L.id;

SELECT A.id AS appointment\_id, A.date\_time AS appointment\_date\_time,

P.firstname AS patient\_firstname, P.lastname AS patient\_lastname,

D.firstname AS dentist\_firstname, D.lastname AS dentist\_lastname,

SR.type AS surgery\_type,

L.address AS location\_address, L.city AS location\_city

FROM Appointment A

JOIN Patient P ON A.patient\_id = P.id

JOIN Dentist D ON A.dentist\_id = D.id

JOIN Surgery SR ON A.surgery\_id = SR.id

JOIN Location L ON SR.location\_id = L.id

WHERE P.id = 1 AND CAST(A.date\_time AS DATE) = '2023-04-15';