doctor table appointment

Step 1: create tables

CREATE TABLE Doctor (

doctor\_id INT PRIMARY KEY,

doctor\_name VARCHAR(255),

email VARCHAR(255),

contact\_no VARCHAR(15),

password VARCHAR(255),

spl\_id INT,

FOREIGN KEY (spl\_id) REFERENCES specialty(spl\_id)

);

CREATE TABLE Appointments (

appointment\_id INT PRIMARY KEY,

date DATE,

patient\_id INT,

doctor\_id INT,

status VARCHAR(50),

prescription TEXT,

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

FOREIGN KEY (doctor\_id) REFERENCES Doctor(doctor\_id)

);

CREATE TABLE Patient (

patient\_id INT PRIMARY KEY,

patient\_name VARCHAR(255),

email VARCHAR(255),

contact\_no VARCHAR(15),

password VARCHAR(255),

appointment\_id INT,

FOREIGN KEY (appointment\_id) REFERENCES Appointments(appointment\_id)

);

CREATE TABLE Transaction (

transaction\_id INT PRIMARY KEY,

date DATE,

amount DECIMAL(10, 2),

appointment\_id INT,

FOREIGN KEY (appointment\_id) REFERENCES Appointments(appointment\_id)

);

CREATE TABLE Reviews\_appointments (

review\_id INT PRIMARY KEY,

description TEXT,

review\_score INT,

appointment\_id INT,

FOREIGN KEY (appointment\_id) REFERENCES Appointments(appointment\_id)

);

CREATE TABLE Reviews\_doctor (

review\_id INT PRIMARY KEY,

description TEXT,

review\_score INT,

patient\_id INT,

doctor\_id INT,

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

FOREIGN KEY (doctor\_id) REFERENCES Doctor(doctor\_id)

);

CREATE TABLE specialty (

spl\_id INT PRIMARY KEY,

spl\_name VARCHAR(255)

);

1. Write a SQL query to obtain doctor-name and spl-id.

SELECT doctor\_name, spl\_id

FROM Doctor;

2. Write a query to obtain a total number of appointments in a day.

SELECT COUNT(appointment\_id) AS total\_appointments

FROM Appointments

WHERE date = CURDATE();

3. Write a query to find out the peak day (having maximum number of appointments) in the week.

SELECT DATE\_FORMAT(date, '%W') AS peak\_day, COUNT(appointment\_id) AS appointment\_count

FROM Appointments

GROUP BY DATE\_FORMAT(date, '%W')

ORDER BY appointment\_count DESC

LIMIT 1;

4. Write a query to find the status of every appointment for today.

SELECT appointment\_id, status

FROM Appointments

WHERE date = CURDATE();

5. Find out the contact-details for a specific doctor with name -xyz.

SELECT doctor\_name, contact\_no, email

FROM Doctor

WHERE doctor\_name = 'xyz';

6. Create a SQL query to count the number of patients who have scheduled appointments with a particular doctor.

SELECT doctor\_name, COUNT(DISTINCT patient\_id) AS patient\_count

FROM Appointments

JOIN Doctor ON Appointments.doctor\_id = Doctor.doctor\_id

GROUP BY doctor\_name;

7. Create a SQL query to count the number of patients who have scheduled appointments with a particular doctor.

SELECT doctor\_name, COUNT(DISTINCT patient\_id) AS patient\_count

FROM Appointments

JOIN Doctor ON Appointments.doctor\_id = Doctor.doctor\_id

GROUP BY doctor\_name;

8. Create a SQL query to figure out the total transactions happened for each speciality.

SELECT s.spl\_name, COUNT(t.transaction\_id) AS total\_transactions

FROM specialty s

LEFT JOIN Doctor d ON s.spl\_id = d.spl\_id

LEFT JOIN Appointments a ON d.doctor\_id = a.doctor\_id

LEFT JOIN Transaction t ON a.appointment\_id = t.appointment\_id

GROUP BY s.spl\_name;

9. Create a query to count how many distinct specialities are there in the hospital.

SELECT COUNT(DISTINCT spl\_id) AS distinct\_specialties

FROM specialty;

10. Create a stored procedure to update the password of a particular patient.

DELIMITER //

CREATE PROCEDURE UpdatePatientPassword(IN patient\_id INT, IN new\_password VARCHAR(255))

BEGIN

UPDATE Patient

SET password = new\_password

WHERE patient\_id = patient\_id;

END//

DELIMITER ;

11. Select name of patients who have taken appointment for a particular doctor for today.

SELECT p.patient\_name

FROM Appointments a

JOIN Patient p ON a.patient\_id = p.patient\_id

JOIN Doctor d ON a.doctor\_id = d.doctor\_id

WHERE d.doctor\_name = 'xyz' AND a.date = CURDATE();

12. Select which patient appointments are in pending state.

SELECT p.patient\_name, a.appointment\_id

FROM Appointments a

JOIN Patient p ON a.patient\_id = p.patient\_id

WHERE a.status = 'Pending';

13. Find out the prescription, doctor name and patient name of all the done appointments for today.

SELECT a.appointment\_id, d.doctor\_name, p.patient\_name, a.prescription

FROM Appointments a

JOIN Doctor d ON a.doctor\_id = d.doctor\_id

JOIN Patient p ON a.patient\_id = p.patient\_id

WHERE a.date = CURDATE() AND a.status = 'Completed';

14. Find out the amount paid by a particular patient in last 1 month.

SELECT t.amount

FROM Transaction t

JOIN Appointments a ON t.appointment\_id = a.appointment\_id

WHERE a.patient\_id = <patient\_id> AND t.date >= DATE\_SUB(CURDATE(), INTERVAL 1 MONTH);

15. Select doctor name, doctor speciality name and status of appointment for today.

SELECT d.doctor\_name, s.spl\_name, a.status

FROM Appointments a

JOIN Doctor d ON a.doctor\_id = d.doctor\_id

JOIN specialty s ON d.spl\_id = s.spl\_id

WHERE a.date = CURDATE();