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CIS 344  
19th December 2023

The screenshot shows the MySQL Workbench interface with a SQL editor containing the following queries:

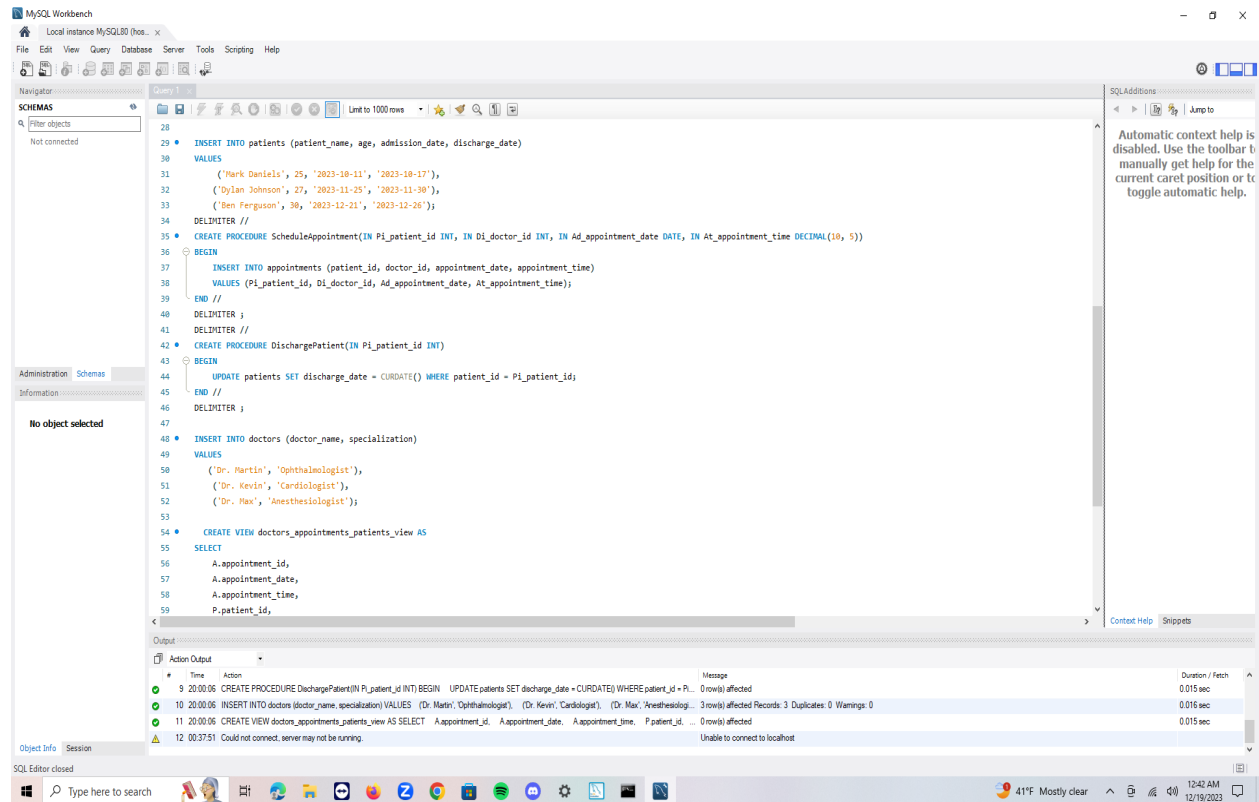
```
1 create database hospital_portal;
2 use hospital_portal;
3
4
5 create table patients(
6     patient_id int not null unique auto_increment primary key,
7     patient_name varchar(255) not null,
8     age int not null,
9     admission_date date,
10    discharge_date date
11 );
12
13 CREATE TABLE doctors (
14     doctor_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
15     doctor_name VARCHAR(255) NOT NULL,
16     specialization VARCHAR(255) NOT NULL
17 );
18
19 CREATE TABLE appointments (
20     appointment_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
21     patient_id INT NOT NULL,
22     doctor_id INT NOT NULL,
23     appointment_date DATE NOT NULL,
24     appointment_time TIME NOT NULL,
25     FOREIGN KEY
26     (patient_id) REFERENCES patients (patient_id),
27     FOREIGN KEY (doctor_id) REFERENCES doctors (doctor_id)
28 );
29
30 INSERT INTO patients (patient_name, age, admission_date, discharge_date)
31 VALUES
32     ('Mark Daniels', 25, '2023-10-11', '2023-10-17'),
33     ('Dylan Johnson', 27, '2023-11-25', '2023-11-30');
```

The output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
9	20:00:06	CREATE PROCEDURE DischargePatient(IN P_patient_id INT) BEGIN UPDATE patients SET discharge_date = CURDATE() WHERE patient_id = P...	0 row(s) affected	0.015 sec
10	20:00:06	INSERT INTO doctors (doctor_name, specialization) VALUES ('Dr. Martin', 'Ophthalmologist'), ('Dr. Kevin', 'Cardiologist'), ('Dr. Max', 'Anesthesiologist');	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
11	20:00:06	CREATE VIEW doctors_appointments_patients_view AS SELECT A.appointment_id, A.appointment_date, A.appointment_time, P.patient_id, ...	0 row(s) affected	0.015 sec
12	00:37:51	Could not connect, server may not be running.	Unable to connect to localhost	

- In this image above I implement and create the Tables for the Patients, Doctors and Appointments. The doctor, appointment and patients ID are all the primary key and I used VARCHAR and INT to set and specify a value for them since they fall within the range.
- In other words the parameters/data values such as INT, VARCHAR and also the INSERT INTO command

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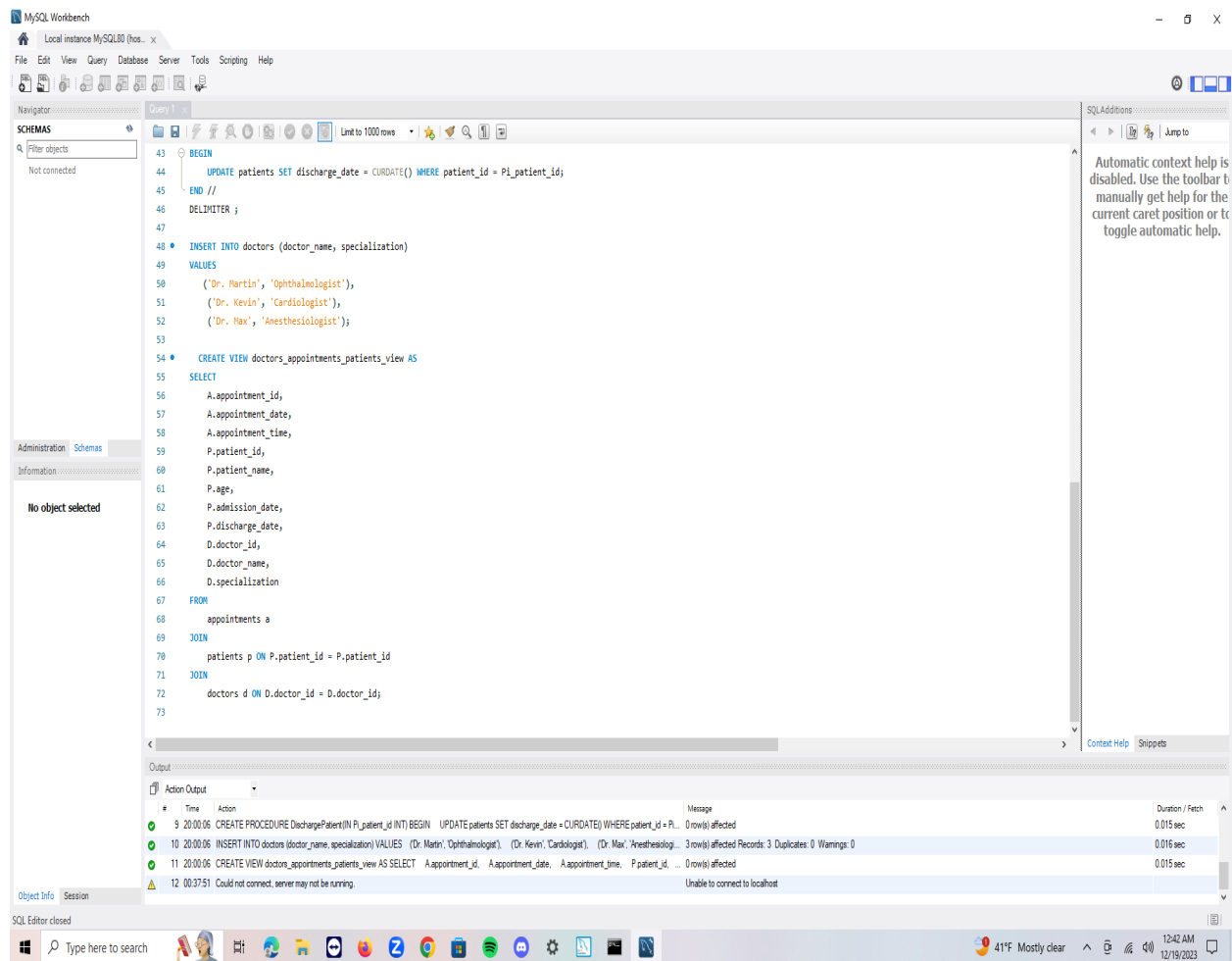
```
28
29 INSERT INTO patients (patient_name, age, admission_date, discharge_date)
30 VALUES
31 ('Mark Daniels', 25, '2023-10-11', '2023-10-17'),
32 ('Dylan Johnson', 27, '2023-11-25', '2023-11-30'),
33 ('Ben Ferguson', 36, '2023-12-21', '2023-12-26');
34 DELIMITER //
35 CREATE PROCEDURE ScheduleAppointment(IN Pi_patient_id INT, IN Di_doctor_id INT, IN Ad_appointment_date DATE, IN At_appointment_time DECIMAL(10, 5))
36 BEGIN
37     INSERT INTO appointments (patient_id, doctor_id, appointment_date, appointment_time)
38     VALUES (Pi_patient_id, Di_doctor_id, Ad_appointment_date, At_appointment_time);
39 END //
40 DELIMITER ;
41 DELIMITER //
42 CREATE PROCEDURE DischargePatient(IN Pi_patient_id INT)
43 BEGIN
44     UPDATE patients SET discharge_date = CURDATE() WHERE patient_id = Pi_patient_id;
45 END //
46 DELIMITER ;
47 INSERT INTO doctors (doctor_name, specialization)
48 VALUES
49 ('Dr. Martin', 'Ophthalmologist'),
50 ('Dr. Kevin', 'Cardiologist'),
51 ('Dr. Max', 'Anesthesiologist');
52
53 CREATE VIEW doctors_appointments_patients_view AS
54 SELECT
55     A.appointment_id,
56     A.appointment_date,
57     A.appointment_time,
58     P.patient_id,
59
```

The Output window shows the execution results:

#	Time	Action	Message	Duration / Fetch
9	20:00:06	CREATE PROCEDURE DischargePatient(IN Pi_patient_id INT) BEGIN UPDATE patients SET discharge_date = CURDATE() WHERE patient_id = Pi...	0 rows(s) affected	0.015 sec
10	20:00:06	INSERT INTO doctors (doctor_name, specialization) VALUES ('Dr. Martin', 'Ophthalmologist'), ('Dr. Kevin', 'Cardiologist'), ('Dr. Max', 'Anesthesiolog...	3 rows(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
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- This is where insert the value criteria for the patients. Such as their name, age and admission and discharge date as well. The Delimiter is good for making sure these statements flow well without error and for creating procedures as well.
- Here we create a procedure for the schedule appointments and the UPDATE command changes the data values in the table and SET command specifies what data should update in each table in the database.

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The screenshot displays the MySQL Workbench interface. The main editor window contains the following SQL code:

```
43 BEGIN
44 UPDATE patients SET discharge_date = CURDATE() WHERE patient_id = Pi_patient_id;
45 END //
46 DELIMITER ;
47
48 INSERT INTO doctors (doctor_name, specialization)
49 VALUES
50 ('Dr. Martin', 'Ophthalmologist'),
51 ('Dr. Kevin', 'Cardiologist'),
52 ('Dr. Max', 'Anesthesiologist');
53
54 CREATE VIEW doctors_appointments_patients_view AS
55 SELECT
56 A.appointment_id,
57 A.appointment_date,
58 A.appointment_time,
59 P.patient_id,
60 P.patient_name,
61 P.age,
62 P.admission_date,
63 P.discharge_date,
64 D.doctor_id,
65 D.doctor_name,
66 D.specialization
67 FROM
68 appointments a
69 JOIN
70 patients p ON P.patient_id = P.patient_id
71 JOIN
72 doctors d ON D.doctor_id = D.doctor_id;
73
```

The Output window at the bottom shows the execution results:

#	Time	Action	Message	Duration / Fetch
9	20:00:06	CREATE PROCEDURE DischargePatient(IN Pi_patient_id INT) BEGIN UPDATE patients SET discharge_date = CURDATE() WHERE patient_id = Pi...	0 row(s) affected	0:015 sec
10	20:00:06	INSERT INTO doctors (doctor_name, specialization) VALUES ('Dr. Martin', 'Ophthalmologist'), ('Dr. Kevin', 'Cardiologist'), ('Dr. Max', 'Anesthesiologist');	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0:016 sec
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- Lastly here we are creating a view makes all these variables and data viewable in more than one table in the database or website. The JOIN combines the patients and doctors in the database.