

HOSPITAL PORTAL

FINAL PROJECT

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CIS 344 Database Design and Programming

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Fall 23

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I Started by creating a schema on Mysql

I added tables

The first table I added was the Patients' table.

Then I added an appointment table. I also added a doctor's table.

I developed stored procedures for appointment scheduling and another for discharging patients, and last I created a view containing join doctors, appointments, and patients.

```
1 • CREATE TABLE patients (  
2     patient_id INT NOT NULL AUTO_INCREMENT,  
3     patient_name VARCHAR(45) NOT NULL,  
4     age INT NOT NULL,  
5     admission_date DATE,  
6     discharge_date DATE,  
7     PRIMARY KEY (patient_id),  
8     UNIQUE KEY (patient_id)  
9 );  
10
```


Hospital's Portal

[Home](#) | [Add Patient](#) | [Schedule Appointment](#) | [View Appointments](#) | [Discharge Patient](#)

Schedule Appointment

Patient ID:

Doctor ID:

Appointment Date: 

Appointment Time:

I checked if the data was stored on my Python and MySQL databases and I carefully corrected any error until it worked.

```

--
12 • CREATE TABLE Appointments (
13     appointment_id INT NOT NULL AUTO_INCREMENT,
14     patient_id INT NOT NULL,
15     doctor_id INT NOT NULL,
16     appointment_date DATE NOT NULL,
17     appointment_time DECIMAL(5, 2) NOT NULL,
18     PRIMARY KEY (appointment_id),
19     FOREIGN KEY (patient_id) REFERENCES patients(patient_id),
20     FOREIGN KEY (doctor_id) REFERENCES doctors(doctor_id)
21 );
22
23
24 • INSERT INTO patients (patient_name, age, admission_date, discharge_date)
25 VALUES
26     ('Maria Jozef', 67, '2023-10-01', '2023-10-07'),
27     ('John Doe', 45, '2023-09-15', '2023-09-25'),
28     ('Alice Smith', 30, '2023-11-05', '2023-11-12');
29
30
31
32 DELIMITER //
33
34 • CREATE PROCEDURE CreateAppointment(
35     IN p_patient_id INT,
36     IN p_doctor_id INT,
37     IN p_appointment_date DATE,
38     IN p_appointment_time DECIMAL(5, 2)
39 )
40 BEGIN
41     INSERT INTO Appointments (patient_id, doctor_id, appointment_date, appointment_time)
42     VALUES (p_patient_id, p_doctor_id, p_appointment_date, p_appointment_time);
43 END //
44
45 DELIMITER ;
46

```

I created the tables with their attributes and added a delimiter in between, creating space from table to table.

In the Python database portal, I added my host's name and other credentials so it can connect to my Mysql server. I tested it and I found some errors for example. I plural and my database has singular and just for a missing s it did not work.

```
import mysql.connector
from mysql.connector import Error

class Database():
    def __init__(self,
                  host="127.0.0.1",
                  port="3306",
                  database="hospital_portal",
                  user='root',
                  password="123456789"):
        self.host = host
        self.port = port
        self.database = database
        self.user = user
        self.password = password
        self.connection = None
        self.cursor = None
```

I struggled until the last minute during my final project. Everything was working, but on the day of my presentation for some reason, nothing was working, and part of my work for no reason.

I had been struggling from the beginning because I forgot my MySQL server password and tried hard with success until I decided to delete it and install it again. When I installed it again it showed no connection to the server and it was very difficult to make it work. I was finally successful after a long time of trying.

After all the hard times, I am happy that I did this project because I learned to connect MYSQL with Python and to be patient trying so many times. I also learned that MYSQL is not as difficult as I thought before taking this class. I will keep learning Databases after this semester, although this is my last semester and I don't I will need to take more

classes, but I will buy books and programs to practice. I know that this is just a basic class and I need to study more.