

2023-2024
BIM216 - DBMS – LAB1
03.05.2024

Part 1: Create the database whose schema is given below.

Database Schema:

1.	Patients Table: Stores information about patients.
	<ul style="list-style-type: none">Columns:<ul style="list-style-type: none">PatientID (Primary Key)NameDate_of_BirthPhone_NumberAddress
2.	Doctors Table: Contains details about doctors.
	<ul style="list-style-type: none">Columns:<ul style="list-style-type: none">DoctorID (Primary Key)NameSpecializationDepartment
3.	Appointments Table: Tracks appointments scheduled by patients with doctors.
	<ul style="list-style-type: none">Columns:<ul style="list-style-type: none">AppointmentID (Primary Key)PatientID (Foreign Key)DoctorID (Foreign Key)Appointment_DateAppointment_Time
4.	Medical_Services Table: Stores information about medical services offered.
	<ul style="list-style-type: none">Columns:<ul style="list-style-type: none">ServiceID (Primary Key)Service_NameDescriptionCost
5.	Payments Table: Records payments made by patients for services.
	<ul style="list-style-type: none">Columns:<ul style="list-style-type: none">PaymentID (Primary Key)PatientID (Foreign Key)ServiceID (Foreign Key)Payment_DateAmount
6.	Prescriptions Table: Records prescriptions issued by doctors to patients.
	<ul style="list-style-type: none">Columns:<ul style="list-style-type: none">PrescriptionID (Primary Key)PatientID (Foreign Key)DoctorID (Foreign Key)Prescription_DateMedicationDosageInstructions

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Part 2: Apply the database operations given below step by step.

1. Add a new column "EMAIL" to the existing "Patient" table.
2. Change the datatype of column "Dosage" to "tinyint" in "Prescriptions" table.
3. Change the name of column "Description" to "Definition" in "Medical_Services" table.
4. Insert at least 5 data into Patients table.
5. Insert at least 5 data into Doctors table. (Some of them should be in different department.)
6. Insert at least 5 data into Medical_Services table.
7. Insert at least 10 data into Appointments table.
8. Insert at least 10 data into Payments table.
9. Display all the information of "Patient" table.
10. Display all the information of "Doctors" table.
11. List all patients who have appointments with a specific doctor in a particular department.
12. Find the total number of appointments made by each patient.
13. Calculate the total amount paid by each patient:
14. Find patients who have not made any appointments.
15. Update the Phone_Number of the patient whose name starts with "x" and date of birth is "y" with the new phone number.
16. Update a specific medical service cost with new cost.
17. Delete patients with birth dates greater than 2020 from the Patients table.
18. Delete a doctor with a specific name from the Doctors table.
19. Delete the table "Appointments".
20. Delete the table "Payments".
21. Delete the table "Patients".