PMC2215 - DATABASE LAB FOR SQL

Credits :2

- CO1: understand the working of DBMS.
- CO2: Create and alter table structures
- CO3: Build subqueries to extract rows from processed data
- CO4: Formulate queries to perform Insert, update and delete, select and rollback operations in a database.
- CO5: create and manipulate collections and perform various operations.

Suppose you are working for a hospital that has a MySQL database to store patient records. The database has the following tables:

- **Patients** (id, name, age, gender, phone, address)
- **Visits** (id, patient_id, doctor_id, date, diagnosis, treatment)

1. Create a table called "**Doctors**" with columns "id", "name", "specialisation" and "phone" to store doctor information, with "id" as the primary key.
2. Write an SQL query to add a new column called "status" to the "**Visits**" table with a default value of "open".
3. Write an SQL query to retrieve the list of patients who are above the age of 60.
4. Write an SQL query to retrieve the list of visits that were made by female patients.
5. Write an SQL query to update the "diagnosis" of all visits made by Dr. John from "Fever" to "Influenza".
6. Write an SQL query to insert a new visit for a patient with ID 789, who was visited by Dr. Lisa on today's date, with a diagnosis of "Cancer" and treatment of "Chemotherapy".
7. Write an SQL query to delete all visits made by Dr. John.
8. Write an SQL query to rollback the changes made to the "Visits" table in questions 6 and 7.
9. Write an SQL query to retrieve the list of patients who have visited a doctor with specialisation "Cardiology".
10. Write an SQL query to retrieve the list of patients who have visited more than one doctor.
11. Write an SQL query to retrieve the list of patients who have visited all doctors.
12. Write an SQL query to retrieve the list of doctors who have not had any visits.

Creating the required tables with constraints and populating them with at least 5 records each	32 marks
Questions 1-12	48 Marks
Mongodb	20 Marks