

**Department of Physical Science**  
**Database Systems - CSC1223(P)**  
**Assignment 02**

Time Allowed: **One hour**

**May - 2024**

*Instructions:*

- *Create a directory on the desktop with your registration number, copy queries and output then paste it into text editors.*
- *Comment the first line with your registration number.*

Consider the following relational instances (Physician, Patient, Appointment, Prescribes and Medication) from the **Hospital database**:

**Table 1: Physician**

PhysicianId	Name	Position	DepartmentNo
1	John Dorian	Staff Internist	2
2	Elliot Reid	Attending Physician	1
3	Christopher Turk	Surgical Attending Physician	3
4	Percival Cox	Senior Attending Physician	3
5	Keith Dudemeister	MD Resident	4
6	Molly Clock	Attending Psychiatrist	1

**Table 2: Patient**

PatientId	Name	Address	Phone
100000001	John Smith	42 Foobar Lane	555-0256
100000002	Grace Ritchie	37 Snafu Drive	555-0512
100000003	Todd Quinlan	101 Omgbq Street	555-1204
100000004	Dennis Doe	1100 Foobaz Avenue	555-2048

**Table 3: Appointment**

AppointmentId	Patient	Physician	Start_dt_time	End_dt_time	Examinationroom
13216584	100000001	1	2008-04-24 10:00:00	2008-04-24 13:00:00	A
26548913	100000002	2	2008-04-24 10:00:00	2008-04-24 11:00:00	B
36549879	100000001	1	2008-04-25 10:00:00	2008-04-25 11:00:00	A
46846589	100000004	4	2008-04-25 10:00:00	2008-04-25 11:00:00	C
59871321	100000004	4	2008-04-25 10:00:00	2008-04-26 11:00:00	C
69879231	100000003	2	2008-04-26 11:00:00	2008-04-26 12:00:00	C
76983231	100000001	3	2008-04-26 12:00:00	2008-04-26 15:00:00	C
86213939	100000004	6	2008-04-27 10:00:00	2008-04-27 11:00:00	A
93216548	100000002	2	2008-04-27 10:00:00	2008-04-27 13:00:00	B

**Table 4: Prescribes**

Physician	Patient	Medication	Date	Appointment	Dose
1	100000001	1	2008-04-24 10:47:00	13216584	5
6	100000004	2	2008-04-27 10:53:00	86213939	10
6	100000004	3	2008-04-30 16:53:00		5

**Table 5: Medication**

Code	Name	Brand
1	Procrastin-X	X
2	Thesisin	Foo Labs
3	Awakin	Bar Laboratories
4	Crescavitin	Baz Industries
5	Melioraurin	Snafu Pharmaceuticals

1. Create the database named Hospital with the given relational instances using MySQL.
2. Write SQL queries to retrieve the answers to the following questions:
  - a. Display the data definition for each of the relations.
  - b. Retrieve all the tuples for each of the relations.
  - c. Retrieve physician details who work for the **department 03**.
  - d. Count the number of unique patients who have been scheduled for **examination room 'C'**.
  - e. Retrieve all the appointment details made by **Dennis Doe** on 2008-04-25.
  - f. Retrieve the medication details suggested by the physician **Molly Clock**.
  - g. Find the patients with their physicians by whom they received preliminary treatment and retrieve patient name , address and Physician name.
  - h. Identify the patients and the number of physicians with whom they have scheduled appointments and return Patient name, number of Physicians.
  - i. Get the prescription details that prescribed by a physician in the position **Staff Internist**
  - j. Suppose that patient **Todd Quinlan** has canceled his appointment. Delete **Todd Quinlan** appointment details.