**Hospital management database**

**(mini project DBMS )**

**mysql> -- Create Rooms table as it does not depend on any other table**

mysql> CREATE TABLE Rooms (

-> RoomID INTEGER PRIMARY KEY,

-> RoomNumber TEXT,

-> Type TEXT,

-> Capacity INTEGER

-> );

**Query OK, 0 rows affected (0.04 sec)**

**mysql> desc Rooms;**

+------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+---------+------+-----+---------+-------+

| RoomID | int(11) | NO | PRI | NULL | |

| RoomNumber | text | YES | | NULL | |

| Type | text | YES | | NULL | |

| Capacity | int(11) | YES | | NULL | |

+------------+---------+------+-----+---------+-------+

**4 rows in set (0.00 sec)**

**mysql> -- Create Departments table**

mysql> CREATE TABLE Departments (

-> DepartmentID INTEGER PRIMARY KEY,

-> Name TEXT,

-> Location TEXT,

-> RoomID INTEGER,

-> FOREIGN KEY (RoomID) REFERENCES Rooms(RoomID)

-> );**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Departments;**

**+--------------+---------+------+-----+---------+-------+**

**| Field | Type | Null | Key | Default | Extra |**

**+--------------+---------+------+-----+---------+-------+**

**| DepartmentID | int(11) | NO | PRI | NULL | |**

**| Name | text | YES | | NULL | |**

**| Location | text | YES | | NULL | |**

**| RoomID | int(11) | YES | MUL | NULL | |**

**+--------------+---------+------+-----+---------+-------+**

**4 rows in set (0.00 sec)**

**mysql> -- Create Patients table**

mysql> CREATE TABLE Patients (

-> PatientID INTEGER PRIMARY KEY,

-> Name TEXT,

-> Address TEXT,

-> Phone TEXT,

-> DateOfBirth DATE,

-> Gender TEXT

-> );

**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Patients;**

+-------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+---------+------+-----+---------+-------+

| PatientID | int(11) | NO | PRI | NULL | |

| Name | text | YES | | NULL | |

| Address | text | YES | | NULL | |

| Phone | text | YES | | NULL | |

| DateOfBirth | date | YES | | NULL | |

| Gender | text | YES | | NULL | **6 rows in set (0.00 sec)**

**mysql> -- Create Doctors table**

mysql> CREATE TABLE Doctors (

-> DoctorID INTEGER PRIMARY KEY,

-> Name TEXT,

-> Specialty TEXT,

-> Phone TEXT,

-> Email TEXT

-> );

**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Doctors;**

+-----------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+---------+------+-----+---------+-------+

| DoctorID | int(11) | NO | PRI | NULL | |

| Name | text | YES | | NULL | |

| Specialty | text | YES | | NULL | |

| Phone | text | YES | | NULL | |

| Email | text | YES | | NULL | |

+-----------+---------+------+-----+---------+-------+

**5 rows in set (0.00 sec)**

**mysql> -- Create Medications table as it does not depend on any other table**

mysql> CREATE TABLE Medications (

-> MedicationID INTEGER PRIMARY KEY,

-> Name TEXT,

-> Dosage TEXT,

-> SideEffects TEXT

-> );

**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Medications;**

+--------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------+------+-----+---------+-------+

| MedicationID | int(11) | NO | PRI | NULL | |

| Name | text | YES | | NULL | |

| Dosage | text | YES | | NULL | |

| SideEffects | text | YES | | NULL | |

+--------------+---------+------+-----+---------+-------+

**4 rows in set (0.02 sec)**

**mysql> -- Create Nurses table, which references Departments**

mysql> CREATE TABLE Nurses (

-> NurseID INTEGER PRIMARY KEY,

-> Name TEXT,

-> DepartmentID INTEGER,

-> Phone TEXT,

-> Email TEXT,

-> FOREIGN KEY (DepartmentID) REFERENCES Departments(DepartmentID)

-> );

**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Nurses;**

+--------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------+------+-----+---------+-------+

| NurseID | int(11) | NO | PRI | NULL | |

| Name | text | YES | | NULL | |

| DepartmentID | int(11) | YES | MUL | NULL | |

| Phone | text | YES | | NULL | |

| Email | text | YES | | NULL | |

**5 rows in set (0.00 sec)**

**mysql> -- Create Appointments table, which references Patients and Doctors**

mysql> CREATE TABLE Appointments (

-> AppointmentID INTEGER PRIMARY KEY,

-> Date DATE,

-> Time TIME,

-> PatientID INTEGER,

-> DoctorID INTEGER,

-> FOREIGN KEY (PatientID) REFERENCES Patients(PatientID),

-> FOREIGN KEY (DoctorID) REFERENCES Doctors(DoctorID)

-> );

**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Appointments;**

+---------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------+------+-----+---------+-------+

| AppointmentID | int(11) | NO | PRI | NULL | |

| Date | date | YES | | NULL | |

| Time | time | YES | | NULL | |

| PatientID | int(11) | YES | MUL | NULL | |

| DoctorID | int(11) | YES | MUL | NULL | |

+---------------+---------+------+-----+---------+-------+

**5 rows in set (0.00 sec)**

**mysql> -- Create Treatments table, which references Patients, Doctors, and Nurses**

mysql> CREATE TABLE Treatments (

-> TreatmentID INTEGER PRIMARY KEY,

-> Type TEXT,

-> Date DATE,

-> PatientID INTEGER,

-> DoctorID INTEGER,

-> NurseID INTEGER,

-> FOREIGN KEY (PatientID) REFERENCES Patients(PatientID),

-> FOREIGN KEY (DoctorID) REFERENCES Doctors(DoctorID),

-> FOREIGN KEY (NurseID) REFERENCES Nurses(NurseID)

-> );

**Query OK, 0 rows affected (0.03 sec)**

**mysql> desc Treatments;**

+-------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+---------+------+-----+---------+-------+

| TreatmentID | int(11) | NO | PRI | NULL | |

| Type | text | YES | | NULL | |

| Date | date | YES | | NULL | |

| PatientID | int(11) | YES | MUL | NULL | |

| DoctorID | int(11) | YES | MUL | NULL | |

| NurseID | int(11) | YES | MUL | NULL | |

+-------------+---------+------+-----+---------+-------+

**6 rows in set (0.00 sec)**

**mysql> -- Create the junction table to link Treatments and Medications**

mysql> CREATE TABLE TreatmentMedications (

-> TreatmentID INTEGER,

-> MedicationID INTEGER,

-> Dosage TEXT,

-> PRIMARY KEY (TreatmentID, MedicationID),

-> FOREIGN KEY (TreatmentID) REFERENCES Treatments(TreatmentID),

-> FOREIGN KEY (MedicationID) REFERENCES Medications(MedicationID)

-> );

**Query OK, 0 rows affected (0.01 sec)**

**mysql> desc TreatmentMedications;**

+--------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+---------+------+-----+---------+-------+

| TreatmentID | int(11) | NO | PRI | NULL | |

| MedicationID | int(11) | NO | PRI | NULL | |

| Dosage | text | YES | | NULL | |

+--------------+---------+------+-----+---------+-------+

**3 rows in set (0.01 sec)**

**mysql> -- Create Bills table, which references Patients**

mysql> CREATE TABLE Bills (

-> Bill\_ID INTEGER PRIMARY KEY,

-> Amount FLOAT,

-> Date DATE,

-> PatientID INTEGER,

-> FOREIGN KEY (PatientID) REFERENCES Patients(PatientID)

-> );

**Query OK, 0 rows affected (0.04 sec)**

**mysql> desc Bills;**

+-----------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+---------+------+-----+---------+-------+

| Bill\_ID | int(11) | NO | PRI | NULL | |

| Amount | float | YES | | NULL | |

| Date | date | YES | | NULL | |

| PatientID | int(11) | YES | MUL | NULL | |

**4 rows in set (0.00 sec)**

**ER DIAGRAM OF HOSPITAL MANAGEMNENT**

