HOSPITAL MANAGEMENT SYSTEM
DATABASE

HOSPITALS

hospital_id	hospital_name	hospital_address
200520	Bahrain Hospital	4500 San Pablo Road
300360	King Hamad University Hospital	Waly Alahed Avenue
400610	Salmaniya Hospital	Westminster Bridge Rd
500730	Mayo Clinic	Sheikh Essa Road

DOCTORS

doctor_id	doctor_name	doctor_mobile	hospital_name	doctor_specification
12365	Henry Fuller	978 123 1234	Bahrain Hospital	Dermatologist
15642	Zack Futa	123 436 1236	King Hamad University Hospital	General Physician
15235	Cam Ryder	543 753 1327	Salmaniya Hospital	Pediatrician
51235	Oliver Mansman	617 355 7684	Mayo Clinic	Surgeon

PATIENTS

patient_id	patient_name	patient_mobile	patient_email	patient_address
589215	Mike Lock	135 753 2346	mikelock@gmail.com	152 Main Street
975913	Harry Sax	643 764 1256	harrysax@yahoo.com	53 Chendogg Ave
193258	Jenny Tayla	642 176 7421	jennytayla@gmail.com	651 Brook Street
497598	Benjamin Dover	432 753 1274	benjamindover@gmail.com	63 Vancouver Way

APPOINTMENTS

appointment_id	patient_id	doctor_id	appointment_date
10001	193258	15235	2022-11-25
10002	589215	12365	2022-11-26
10003	975913	15642	2022-11-27
10004	497598	51235	2022-11-28

MEDICINES

medicine_id	medicine_description	medicine_expiry_date
416420	Dicloxacillin	2023-12-10
109214	Insulin	2023-08-05
201592	Thrombolytics	2024-02-20
312560	Acetaminophen	2024-03-28

MEDICINES_PRESCRIBED

prescription_id	patient_id	medicine_description
2002001	589215	Dicloxacillin
2002002	975913	Insulin
2002003	497598	Thrombolytics
2002004	193258	Acetaminophen

HOSPITAL MANAGEMENT SYSTEM
MYSQL CODE

```sql
CREATE DATABASE Hospital_Mgt_Sys;

USE Hospital_Mgt_Sys;

CREATE TABLE HOSPITALS(Hospital_ID INT NOT NULL, Hospital_Name VARCHAR(100), Hospital_Address VARCHAR(200),
PRIMARY KEY(Hospital_Name));

CREATE TABLE DOCTORS(Doctor_ID INT NOT NULL, Doctor_Name VARCHAR(100), Doctor_Mobile VARCHAR(100),
Hospital_Name VARCHAR(100), Doctor_Specification VARCHAR(100), PRIMARY KEY(Doctor_ID), FOREIGN KEY
(Hospital_Name) REFERENCES HOSPITALS(Hospital_Name));

CREATE TABLE PATIENTS(Patient_ID INT NOT NULL, Patient_Name VARCHAR(100), Patient_Mobile VARCHAR(100),
Patient_Email VARCHAR(100), Patient_Address VARCHAR(100), PRIMARY KEY(Patient_ID));

CREATE TABLE APPOINTMENTS(Appointment_ID INT NOT NULL, Patient_ID INT, Doctor_ID INT, Appointment_Date DATE,
FOREIGN KEY(Patient_ID) REFERENCES PATIENTS(Patient_ID), FOREIGN KEY(Doctor_ID) REFERENCES
DOCTORS(Doctor_ID));

CREATE TABLE MEDICINES(Medicine_ID INT NOT NULL, Medicine_Description VARCHAR(100), Medicine_Expiry_Date DATE,
PRIMARY KEY(Medicine_Description));

CREATE TABLE MEDICINES_PRESCRIBED(Prescription_ID INT NOT NULL, Patient_ID INT, Medicine_Description
VARCHAR(100), FOREIGN KEY(Patient_ID) REFERENCES PATIENTS(Patient_ID), FOREIGN KEY(Medicine_Description)
REFERENCES MEDICINES(Medicine_Description));
```

```sql
INSERT INTO HOSPITALS VALUES('200520','Bahrain Hospital','4500 San Pablo Road'),
('300360','King Hamad University Hospital','Waly Alahed Avenue'),
('400610','Salmaniya Hospital','Westminster Bridge Rd'),
('500730','Mayo Clinic','Sheikh Essa Road');

INSERT INTO DOCTORS VALUES('12365', 'Henry Fuller', '978 123 1234', 'Bahrain Hospital', 'Dermatologist'),
('15642','Zack Futa','123 436 1236','King Hamad University Hospital','General Physician'),
('15235','Cam Ryder','543 753 1327','Salmaniya Hospital','Pediatrician'),
('51235','Oliver Mansman','617 355 7684','Mayo Clinic','Surgeon');

INSERT INTO PATIENTS VALUES('589215', 'Mike Lock','135 753 2346','mikelock@gmail.com','152 Main Street'),
('975913','Harry Sax','643 764 1256','harrysax@yahoo.com','53 Chendogg Ave'),
('193258','Jenny Tayla','642 176 7421','jennytayla@gmail.com','651 Brook Street'),
('497598','Benjamin Dover','432 753 1274','benjamindover@gmail.com','63 Vancouver Way');

INSERT INTO APPOINTMENTS VALUES('10001','193258','15235','2022-11-25'),
('10002','589215','12365','2022-11-26'),
('10003','975913','15642','2022-11-27'),
('10004','497598','51235','2022-11-28');

INSERT INTO MEDICINES VALUES('416420','Dicloxacillin','2023-12-10'),
('109214','Insulin','2023-08-05'),
('201592','Thrombolytics','2024-02-20'),
('312560','Acetaminophen','2024-03-28');

INSERT INTO MEDICINES_PRESCRIBED VALUES('2002001','589215','Dicloxacillin'),
('2002002','975913','Insulin'),
('2002003','497598','Thrombolytics'),
('2002004','193258','Acetaminophen');
```

HOSPITAL MANAGEMENT SYSTEM
MYSQL QUERIES

1)Select all Hospitals with a Hospital Name that have "ma" in any position:
```
SELECT * FROM HOSPITALS WHERE Hospital_Name LIKE '%ma%';
```

2)List all the Hospital details based on a particular Hospital ID:
```
SELECT * FROM HOSPITALS WHERE Hospital_ID = '500730';
```

3)List all the Patients details from the "Patients" table sorted by Patient name:
```
SELECT * FROM PATIENTS ORDER BY Patient_Name;
```

4)List all the appointments on a particular date:
```
SELECT * FROM Appointments WHERE Appointment_Date = '2022-11-26';
```

5)List the Doctors who have scheduled appointments:
```
SELECT APPOINTMENTS.Appointment_Date, DOCTORS.Doctor_Name, DOCTORS.Doctor_Specification FROM APPOINTMENTS LEFT JOIN DOCTORS ON APPOINTMENTS.Doctor_ID = DOCTORS.Doctor_ID;
```