Lab 5:   SQL DDL

CREATE SCHEMA online_medical_consultation_system;

SET SEARCH_PATH TO online_medical_consultation_system;

/*hospital table*/

CREATE TABLE hospital(

registrationId varchar(10) PRIMARY KEY,

hospitalName varchar(30) NOT NULL,

digitalSignature varchar(50) NOT NULL

);

/*state table*/

CREATE TABLE state(

stateId varchar(4) PRIMARY KEY,

stateName varchar(20) NOT NULL UNIQUE

);

/*city table*/

CREATE TABLE city

(

cityId varchar(4) PRIMARY KEY,

cityName varchar(20) NOT NULL,

stateId varchar(4)REFERENCES state(stateId) ON DELETE CASCADE ON

UPDATE CASCADE NOT NULL

);

/*hospital branch table*/

CREATE TABLE hospitalBranch(

branchId varchar(4) PRIMARY KEY,

contactNumber numeric(10) NOT NULL,

emailId varchar(25) NOT NULL,

address varchar(100) NOT NULL,

stamp varchar(50) NOT NULL,

```
registrationId varchar(10) REFERENCES hospital(registrationId) ON DELETE
CASCADE ON UPDATE CASCADE NOT NULL,
cityId varchar(4)REFERENCES city(cityId) ON DELETE CASCADE ON UPDATE
CASCADE NOT NULL
);
/*medical branch table*/
CREATE TABLE medicalBranch
(
medicalBranchId varchar(5) PRIMARY KEY,
medicalBranchName varchar(30) NOT NULL UNIQUE,
description varchar(100)
);
/*hbranch_has_mbranch table*/
CREATE TABLE hBranchHasMBranch(
branchId varchar(4) REFERENCES hospitalBranch(branchId) ON DELETE
CASCADE ON UPDATE CASCADE NOT NULL,
medicalBranchId varchar(5) REFERENCES medicalBranch(medicalBranchId)
ON DELETE CASCADE ON UPDATE CASCADE NOT NULL,
PRIMARY KEY(branchId,medicalBranchId)
);
/*faq table*/
CREATE TABLE faq(
faqId varchar(5) PRIMARY KEY,
question varchar(100),
answer varchar(250),
registrationId varchar(10) REFERENCES hospital(registrationId) ON DELETE
CASCADE ON UPDATE CASCADE NOT NULL
);
/*doctor table*/
CREATE TABLE doctor(
```

```sql
doctorId varchar(5) PRIMARY KEY,

firstName varchar(20) NOT NULL,

lastName varchar(20) NOT NULL,

qualification varchar(20) NOT NULL,

specialization varchar(20) NOT NULL,

experience numeric(2),

dateOfBirth date NOT NULL,

gender char(1) CHECK(gender IN('M','F','O')) NOT NULL,

mobileNumber numeric(10) UNIQUE NOT NULL,

address varchar(100),

emailId varchar(25) NOT NULL,

password varchar(20) NOT NULL,

chargePerConsultation numeric(5) NOT NULL,

medicalLicense varchar(50) NOT NULL,

digitalSignature varchar(50) NOT NULL,

rating numeric(1) CHECK(rating>=1 AND rating <=5),

photo varchar(50) NOT NULL,

idProof varchar(50) NOT NULL,

branchId varchar(4) REFERENCES hospitalBranch(branchId) ON DELETE
RESTRICT ON UPDATE CASCADE NOT NULL,

medicalBranchId varchar(5) REFERENCES medicalBranch(medicalBranchId)
ON DELETE RESTRICT ON UPDATE CASCADE NOT NULL,

UNIQUE(firstName,lastName)
);
/*language known table*/
CREATE TABLE doctorLanguagesKnown(

doctorId varchar(5) REFERENCES doctor(doctorId) ON DELETE CASCADE ON
UPDATE CASCADE NOT NULL,

languagesKnown varchar(15) NOT NULL,

PRIMARY KEY(doctorId,languagesKnown)
```

```sql
);
/*availability of doctor table*/
CREATE TABLE availabilityOfDoctor(
availabilityId varchar(6) PRIMARY KEY,
weekDay varchar(10) NOT NULL,
numberOfDays numeric(1) CHECK(numberOfDays>=1 AND numberOfDays<=7)
NOT NULL,
startTime time NOT NULL,
endTime time NOT NULL,
doctorId varchar(5) REFERENCES doctor(doctorId) ON DELETE CASCADE ON
UPDATE CASCADE NOT NULL
);
/*Patient table */
CREATE TABLE patient(
patientId varchar(10) PRIMARY KEY,
firstName varchar(20) NOT NULL,
lastName varchar(20) NOT NULL,
dateOfBirth date NOT NULL,
gender char(1) CHECK(gender IN('M','F','O')) NOT NULL,
mobileNumber numeric(10) UNIQUE NOT NULL,
address varchar(100),
emailId varchar(25) NOT NULL,
password varchar(20) NOT NULL,
heightInCm numeric(3),
weight decimal(5,2),
allergies varchar(100),
medicalHistory varchar(100),
photo varchar(50),
idProof varchar(50) NOT NULL
);
```

```sql
/*laboratory table*/
CREATE TABLE laboratory(
labId varchar(4) PRIMARY KEY,
labName varchar(20) NOT NULL,
contactNumber numeric(10) NOT NULL,
address varchar(100) NOT NULL,
emailId varchar(25),
branchId varchar(4) REFERENCES hospitalBranch(branchId) ON DELETE
CASCADE ON UPDATE CASCADE NOT NULL
);
/*appointment table*/
CREATE TABLE appointment(
appointmentId varchar(10) PRIMARY KEY,
dateOfAppointment date NOT NULL,
timeOfAppointment time NOT NULL,
symptoms varchar(100) NOT NULL,
appointmentStatus varchar(16) CHECK(appointmentStatus IN
('pending','completed','cancelled','followUpRequired')) NOT NULL,
durationOfAppointment time NOT NULL,
doctorId varchar(5) REFERENCES doctor(doctorId) ON DELETE RESTRICT ON
UPDATE CASCADE NOT NULL,
patientId varchar(10) REFERENCES patient(patientId) ON DELETE RESTRICT
ON UPDATE CASCADE NOT NULL,
labId varchar(4) REFERENCES laboratory(labId) ON DELETE SET NULL ON UPDATE
CASCADE
);
/*payment table*/
CREATE Table payment(
transactionId varchar(17) PRIMARY KEY,
transactionAmount decimal(7,2) NOT NULL,
```

```sql
paymentGateway varchar(9) CHECK(paymentGateway

IN('PayPal','PayTM','CCAvenue','Cashfree','Razorpay')) NOT NULL,

refund boolean DEFAULT false NOT NULL,

appointmentId varchar(10) REFERENCES appointment(appointmentId) ON

DELETE RESTRICT ON UPDATE CASCADE NOT NULL

);

/*pharmacy table*/

CREATE TABLE pharmacy(

pharmacyId varchar(5) PRIMARY KEY,

pharmacyName varchar(20) NOT NULL,

contactNumber numeric(10) NOT NULL,

address varchar(100) NOT NULL,

emailId varchar(25) NOT NULL,

websiteUrl varchar(30) NOT NULL

);

/*patient records table*/

CREATE table patientRecord(

patientId varchar(10) REFERENCES patient(patientId) ON DELETE RESTRICT

ON UPDATE CASCADE NOT NULL,

appointmentId varchar(10) REFERENCES appointment(appointmentId) ON

DELETE RESTRICT ON UPDATE CASCADE NOT NULL,

doctorObservation varchar(100),

doctorDiagnosis varchar(100),

orderedMedicine boolean,

labReport varchar(50),

digitalPrescription varchar(50),

pharmacyId varchar(5) REFERENCES pharmacy(pharmacyId) ON DELETE SET

NULL ON UPDATE CASCADE,

PRIMARY KEY(patientId,appointmentId)

);
```

```sql
/*meet details table*/

CREATE TABLE meetDetails(

appointmentId varchar(10) REFERENCES appointment(appointmentId) ON

DELETE RESTRICT ON UPDATE CASCADE NOT NULL,

videoConferencingLink varchar(50),

telephoneRecordingLink varchar(50),

chatData varchar(50),

doctorFeedback varchar(50),

PRIMARY KEY(appointmentId)

);

/*table feedback*/

CREATE TABLE feedback(

feedbackId varchar(10) PRIMARY KEY,

reviewByPatient varchar(100),

rating numeric(1) CHECK(rating>=1 AND rating <=5),

patientId varchar(10) REFERENCES patient(patientId) ON DELETE RESTRICT

ON UPDATE CASCADE NOT NULL,

appointmentId varchar(10) REFERENCES appointment(appointmentId) ON

DELETE RESTRICT ON UPDATE CASCADE NOT NULL

);
```