```
//Creating table for role of the person in hospital
create table Roles
        role id int auto increment primary key,
        role name varchar(50) not null,
        check(role name in('Doctor','Nurse','Receptionist'))
);
//creating table for user with credentials that for specific role
create table Users
(
        user id int auto increment primary key,
        user name varchar(50) not null,
        pass varchar(50) not null,
        role id int not null,
        foreign key(role id) references Roles(role id)
);
// creating table for doctors
create table Doctors
(
        doctor id int auto increment primary key,
        first name varchar(50) not null,
        last name varchar(50) not null,
        speciality varchar(50) not null,
        phone decimal(10) not null,
        user id int not null,
        foreign key(user_id) references Users(user_id) on delete cascade,
  check(phone>999999999 and phone<10000000000)
)
// creating table for receptionist
create table Receptionist
(
        receptionist id int auto increment primary key,
```

```
receptionist name varchar(50) not null,
        user id int not null,
        foreign key(user id) references Users(user id) on delete cascade
);
// creating table for nurses
create table Nurses
(
        nurse id int auto increment primary key,
        nurse name varchar(50) not null,
        nurse address varchar(50),
        phone num decimal(10) not null,
        user id int not null,
        foreign key(user id) references Users(user id) on delete cascade,
        check(phone num>999999999 and phone num<100000000000)
);
// creating table for patients
create table Patients
(
        patient id int auto increment primary key,
        first name varchar(50) not null,
        last name varchar(50) not null,
        date of birth date not null,
        adhar num decimal(12) unique,
        symptoms varchar(100) not null,
        gender varchar(10) not null,
        phone_number decimal(10) not null,
        insurance_limit int not null,
        total bill decimal(10,2) default 0.00,
        receptionist id int not null,
        nurse id int not null,
        foreign key(nurse id) references Nurses(nurse id),
        foreign key(receptionist id) references Receptionist(receptionist id),
  check(insurance limit>=0),
```

```
check(gender in('male','female','other')),
  check(adhar num>100000000000 and adhar num<99999999999),
  check(phone number>999999999 and phone number<10000000000)
);
// creating table of appointment for patient
create table Appointments
(
        appointment id int auto increment primary key,
        patient id int not null,
        doctor id int not null,
        appointment date time datetime not null,
        status varchar(5) not null,
        check(status in('free', 'busy')),
        foreign key(patient_id) references Patients(patient_id),
        foreign key(doctor id) references Doctors(doctor id)
);
// creating table of diagnosis
create table Diagnosis
(
        diagnosis id int auto increment primary key,
        patient_id int not null,
        appointment id int not null,
        diagnosis date date not null,
        diagnosis details text not null,
        prescription varchar(100),
        foreign key(patient_id) references Patients(patient_id),
        foreign key(appointment_id) references Appointments(appointment_id)
);
// creating table for bill
create table Bill
(
        bill id int auto increment primary key,
```

```
patient id int not null,
        bill amount decimal(10,2) not null,
        bill date date not null,
        foreign key(patient id) references Patients(patient id)
);
//creating view for patient info with user
create view PatientInfo as
select
        Patients.patient id,
        Patients.first name,
        Patients.last name,
        Patients.adhar num,
        Patients.date of birth,
        Patients.gender,
        Users.user name as Registerd By
from Patients
join Users on Patients.patient id=Users.user id;
// creating index for patient table on last-name of patient
create index Index on Patient LastName on Patients(last name);
// creating index for bill table on patient id
create index Index on Bill Patient Id on Bill(patient id);
// creating procedure to generate bill for specific patient
DELIMITER //
create procedure Generate_Bill(in patientID int)
begin
  declare total bill decimal(10,2);
  select SUM(bill amount) into total bill
```

```
from Bill
  where patient id = patientID;
  update Patients
  set total_bill = total_bill
  where patient id = patientID;
end //
DELIMITER;
// creating trigger to check whether the insurance for patient is expired
DELIMITER //
create trigger Check Insurance Expiry
before insert on Diagnosis
for each row
begin
  if new.diagnosis date > (select date add(date of birth, interval insurance limit year) from Patients where
patient id = new.patient id) then
     signal sqlstate '45000' set message text = 'Insurance Limit Expired..!';
  end if:
end //
DELIMITER;
//creating trigger to check alredy registerd patient
DELIMITER //
create trigger Check Registered Patient
before insert on Patients
for each row
begin
  if new.adhar num = any(select adhar num from Patients) then
     signal sqlstate '45000' set message text = 'Patient alredy rgistered..!';
  end if;
```

```
end //
```

DELIMITER;

```
drop table Patients;
drop table Doctors;
drop table Appointments;
drop table Diagnosis;
drop table Nurses;
drop table Receptionist;
drop table Roles;
drop table Users;
drop table Bill;
select *from Doctors;
// inserting data into Roles table
insert into Roles(role name) values ('Doctor');
insert into Roles(role name) values ('Nurse');
insert into Roles(role name) values ('Receptionist');
// inserting data into Users table
insert into Users(user name,pass,role id) values('Doc 1','123',1);
insert into Users(user name,pass,role id) values('Doc 2','123',1);
insert into Users(user name,pass,role id) values('Nur 1','123',2);
```

insert into Users(user name,pass,role id) values('Nur 2','123',2);

insert into Users(user_name,pass,role_id) values('Rec_1','123',3);

insert into Users(user_name,pass,role_id) values('Rec_2','123',3);

// inserting data in Doctors table

insert into Doctors(first_name,last_name,speciality,phone,user_id) values('Sudhir','Desai','Eye Specialist',7057271796,1);

insert into Doctors(first name,last name,speciality,phone,user id) values('Vikrant','Madkari','Dentist',7020298816,2);

//inserting data for Nurses

insert into Nurses(nurse_name,nurse_address,phone_num,user_id) values('Susmita','Gadhinglaj',1203005640,3); insert into Nurses(nurse_name,nurse_address,phone_num,user_id) values('Asmita','Nool',1020304050,4);

//inserting data into Receptionist table

insert into Receptionist(receptionist_name,user_id) value('Sarang',5);

insert into Receptionist(receptionist name, user id) value('Sarada',6);

//inserting data for Patients

insert into

Patients(first_name,last_name,date_of_birth,adhar_num,symptoms,gender,phone_number,insurance_limit,nurse_id,re ceptionist id) values('Ramesh','Janawade','2002-07-01',583547762003,'cough','male',7276774873,40,1,1);

insert into

Patients(first_name,last_name,date_of_birth,adhar_num,symptoms,gender,phone_number,insurance_limit,nurse_id,re ceptionist id) values('Shivraj','Kanade','1998-07-21',112233445566,'cold','male',9020298816,30,2,2);

insert into

Patients(first_name,last_name,date_of_birth,adhar_num,symptoms,gender,phone_number,insurance_limit,nurse_id,re ceptionist_id) values('Kiran','Sabale','1981-09-05',102030405060,'headache','female',9730083826,60,1,2);

//inserting data into Appointment table

insert into Appointments(appointment_date_time,status,patient_id,doctor_id) values('2024-01-10 01:10:30','free',5,1); insert into Appointments(appointment date time,status,patient id,doctor id) values('2024-02-20 11:20:30','free',6,2);

//Adding diagnosis data for patient

insert into Diagnosis(diagnosis_date,diagnosis_details,prescription,patient_id,appointment_id) value('2024-01-10','Regular checkup','painkiller',5,5);

insert into Diagnosis(diagnosis_date,diagnosis_details,prescription,patient_id,appointment_id) value('2024-02-20','Regular checkup','dolo',6,6);

//inserting data into Bill table

insert into Bill(patient id, bill amount, bill date) values(5, 500, 2024-01-10');

insert into Bill(patient id, bill amount, bill date) values(5, 500, '2024-02-20');

insert into Bill(patient id, bill amount, bill date) values(6, 00, 2024-01-10');

insert into Bill(patient id, bill amount, bill date) values(6, 100, 2024-02-20');