create table Doctor(

doc\_id varchar(20) primary key,

doc\_name varchar(30) not null,

d\_gender char(1),

constraint ck\_d\_gender check(d\_gender = 'M' or d\_gender = 'F' or d\_gender = 'T'),

d\_dob date not null,

specialist varchar(25),

qualification varchar(15),

d\_Contact number(20),

d\_Address varchar(50) not null,

d\_dept\_no varchar(20)

);

create table Department(

dept\_no varchar(20) primary key,

dept\_name varchar(30) not null,

room\_no varchar(10),

floor number(5),

hod varchar(20),

constraint fk\_hod foreign key(hod) references Doctor(doc\_id),

estd\_date date

);

create table Staff(

staff\_id varchar(15) primary key,

staff\_name varchar(25) not null,

category varchar(20),

designation varchar(15) not null,

s\_dob date not null,

s\_contact number(15),

s\_address varchar(50),

s\_dept\_no varchar(10),

constraint fk\_s\_dept\_no foreign key(s\_dept\_no) references Department(dept\_no)

);

create table Patient(

pat\_id varchar(20) primary key,

pat\_name varchar(30) not null,

p\_dob date not null,

p\_gender varchar(10) not null,

constraint ck\_p\_gender check(p\_gender = 'M'or p\_gender = 'F' or p\_gender ='T'),

p\_contact number(20),

p\_address varchar(50) not null

);

create table In\_Patient(

ip\_id varchar(20),

doa date not null,

primary key(ip\_id,doa),

bed\_no varchar(10),

start\_time date,

end\_time date,

constraint fk\_ip\_id foreign key (ip\_id) references Patient(pat\_id)

);

create table Appointment(

app\_id varchar(20) primary key,

a\_pat\_id varchar(20),

constraint fk\_a\_pat\_id foreign key(a\_pat\_id) references Patient(pat\_id),

a\_doc\_id varchar(20),

constraint fk\_a\_doc\_id foreign key(a\_doc\_id) references Doctor(doc\_id),

nurse\_id varchar(20),

constraint fk\_nurse\_id foreign key(nurse\_id) references Staff(staff\_id),

consult\_room\_no number(20),

a\_date date not null,

a\_time varchar(10) not null

);

create table Prescription(

pres\_id varchar(15) primary key,

p\_app\_id varchar(20),

constraint fk\_p\_app\_id foreign key(p\_app\_id) references Appointment(app\_id),

pres\_date date not null,

pres\_time varchar(10),

diagnosis\_details varchar(20)

);

create table In\_Patient\_Prescription(

in\_pat\_id varchar(20) not null,

ip\_pres\_id varchar(20) not null,

primary key(in\_pat\_id,ip\_pres\_id),

constraint fk\_pres\_id foreign key(ip\_pres\_id) references Prescription(pres\_id),

constraint fk\_in\_pat\_id foreign key(in\_pat\_id) references Patient(pat\_id)

);

create table Prescribed\_Medicines(

m\_pres\_id varchar(25) ,

constraint fk\_m\_pres\_id foreign key (m\_pres\_id) references Prescription(pres\_id),

medicine\_name varchar(40) not null,

primary key(m\_pres\_id,medicine\_name),

dosage varchar(20),

brand varchar(10)

);

create table Hospital\_Bill(

inv\_no number(20),

inv\_date date not null,

primary key(inv\_no,inv\_date),

i\_pat\_id varchar(20),

constraint fk\_i\_pat\_id foreign key(i\_pat\_id) references Patient(pat\_id),

bill\_amount number(25),

payment\_type varchar(25) not null,

discount number(20)

);

create table Lab\_Tests(

test\_id varchar(20) primary key,

L\_pat\_id varchar(20),

constraint fk\_L\_pat\_id foreign key(L\_pat\_id) references Patient(pat\_id),

lab\_date date,

lab\_time varchar(10)

);

create table test\_types(

tt\_id varchar(20) primary key,

description varchar(30),

low\_value number(25),

high\_value number(25),

test\_method varchar(25),

technician varchar(20),

constraint fk\_technician foreign key(technician) references Staff(staff\_id)

);

create table Test\_Results(

r\_test\_id varchar(20) ,

constraint fk\_r\_test\_id foreign key (r\_test\_id) references Lab\_Tests(test\_id),

r\_test\_type\_id varchar(20),

constraint fk\_r\_test\_type\_id foreign key(r\_test\_type\_id) references test\_types(tt\_id),

primary key(r\_test\_id,r\_test\_type\_id),

results varchar(20) not null

);

insert into Doctor values('D108','Vibhu Kumar','M','20-SEPTEMBER-1985','CARDIOLOGIST','MBBS',9926519823,'1,BAREILLY','D101');

insert into Doctor values('D105','Bhavya Singh','M','12-FEBRUARY-1980','NEUROLOGIST','BAMS',9254376189,'15,LUCKNOW','D103');

insert into Doctor values('D101','Sanjay Kumar','F','21-AUGUST-1989','NEPHROLOGIST','MD',976124512,'51,KANPUR','D101');

insert into Doctor values('D107','Aman Singh','M','01-JANUARY-1992','ONCOLOGIST','MD',8449268172,'95,AGRA','D190');

insert into Doctor values('D104','Paman Singh','M','21-DECEMBER-1991','GENERALMEDICINE','MD',8912678219,'102,PUNE','D101');

insert into Doctor values('D102','Tani Kaur','F','25-JUNE-1990','CARDIOLOGIST','MBBS',9363981256,'530,DELHI','D100');

insert into Doctor values('D106','Raghavan','M','03-FEBRUARY-1994','NEPHROLOGIST','MDS',9897268266,'17,MATHURA','D101');

insert into Doctor values('D103','Riya Patel','F','25-APRIL-1984','CARDIOLOGIST','MD',7904226737,'121,GWALIOR','D005');

insert into Department values('D101','CARDIOLOGY','A-111',7,'D108','20-MARCH-2012');

insert into Department values('D103','NEUROLOGY','A-120',5,'D101','10-JANUARY-2011');

insert into Department values('D190','ONCOLOGY','A-005',9,'D105','19-DECEMBER-2019');

insert into Department values('D100','CARDIOLOGY','C-050',7,'D106','21-APRIL-2019');

insert into Department values('D005','GM','D-110',7,'D104','31-DECEMBER-2011');

insert into Staff values('S0001','Kirti','nurse','staff nurse','18-AUGUST-1998',9421862561,'BAREILLY','D101');

insert into Staff values('S0002','Swati Gangwar','nurse','staff nurse','05-SEPTEMBER-1999',9721765571,'LUCKNOW','D103');

insert into Staff values('S0003','Shivani Maurya','nurse','staff nurse','10-JUNE-1995',9421862561,'AGRA','D005');

insert into Staff values('S0004','Virat Singh','lab technician','technician','15-APRIL-1997',978945121,'MATHURA','D190');

insert into Staff values('S0005','Rohit Kashyap','lab technician','technician','18-DECEMBER-1998',978951124,'PILIBHIT','D190');

insert into Staff values('S0006','Deepanshu Gupta','cashier','staff cashier','11-DECEMBER-1994',9421862561,'MUMBAI','D101');

insert into Staff values('S0008','Manoj Kumar','ward boy','ward boy','29-AUGUST-1992',9787862561,'DELHI','D103');

insert into Staff values('S0009','Yash Jaiswal','security','staff security','06-DECEMBER-1996',9421862561,'GURGAON','D005');

insert into Patient values('P101','Vibhu Kumar','06-JULY-2000','M',9218357319,'52,BAREILLY');

insert into Patient values('P220','Tanuj','09-OCTOBER-1978','F',7841454511,'132,MUMBAI');

insert into Patient values('P103','Steve ','20-DECEMBER-1975','M',9751254454,'08,DELHI');

insert into Patient values('P104','Mani','15-JUNE-1995','M',944587122,'62,JHANSI');

insert into Patient values('P105','Fara Khan','19-DECEMBER-2014','F',9878987890,'12,GWALIOR');

insert into Patient values('P106','Gayle','25-MARCH-1990','M',944548412,'102,MATHURA');

insert into Patient values('P107','Mansi Jaiswal','07-JUNE-1994','F',9785458412,'190,BAREILLY');

insert into Patient values('P108','Karthik','21-AUGUST-1979','M',944548412,'06,KANPUR');

insert into In\_Patient values('P101', '11-MARCH-2017','B101','11-MARCH-2017','18-MARCH-2017');

insert into In\_Patient values('P220', '10-JANUARY-2020' ,'B012','10-JANUARY-2020','30-JANUARY-2020');

insert into In\_Patient values('P104', '28-FEBRUARY-2020' ,'B101','28-FEBRUARY-2020','15-MARCH-2020');

insert into In\_Patient values('P105', '30-MARCH-2017','B015','30-MARCH-2017','09-APRIL-2017');

insert into In\_Patient values('P106', '30-DECEMBER-2019','B001','30-DECEMBER-2019','15-JANUARY-2020');

insert into In\_Patient values('P107','30-MARCH-2020','B019','30-MARCH-2020','17-APRIL-2020');

insert into In\_Patient values('P103','29-MAY-2020','B101','29-MAY-2020','12-JUNE-2020');

insert into In\_Patient values('P108','30-NOVEMBER-2019','B14','30-NOVEMBER-2019','30-DEC-2019');

insert into Appointment values('A101','P101','D101','S0001',103,'12-MARCH-2017','13:00');

insert into Appointment values('A102','P220','D102','S0002',111,'11-JANUARY-2020','12:00');

insert into Appointment values('A103','P103','D103','S0003',100,'01-JANUARY-2020','17:00');

insert into Appointment values('A104','P104','D104','S0004',005,'18-FEBRUARY-2020','11:00');

insert into Appointment values('A105','P105','D105','S0005',120,'25-AUGUST-2019','08:00');

insert into Appointment values('A106','P106','D106','S0006',111,'01-MAY-2020','09:30');

insert into Appointment values('A107','P107','D107','S0008',111,'01-MAY-2020','10:15');

insert into Appointment values('A108','P108','D108','S0009',105,'01-MAY-2020','11:20');

insert into Prescription values('PR00001','A101', '12-MARCH-2017' ,'13:30','COUGH');

insert into Prescription values('PR00002','A102', '11-JANUARY-2020' ,'13:00','NEURAL ATTACK');

insert into Prescription values('PR00003','A103','02-JANUARY-2020','14:00','BILATERAL PNEUMONIA');

insert into Prescription values('PR00004','A104','18-FEBRUARY-2020','16:00','COUGH');

insert into Prescription values('PR00005','A105','25-AUGUST-2019','08:30','CARDIAC ARREST');

insert into Prescription values('PR00006','A106','01-MAY-2020','10:15','ACCIDENT');

insert into Prescription values('PR00007','A107','01-MAY-2020','11:25','COUGH');

insert into Prescription values('PR00008','A108','01-MAY-2020','12:30','CARDIAC ARREST');

insert into In\_Patient\_Prescription values('P101','PR00001');

insert into In\_Patient\_Prescription values('P220','PR00002');

insert into In\_Patient\_Prescription values('P103','PR00003');

insert into In\_Patient\_Prescription values('P104','PR00004');

insert into In\_Patient\_Prescription values('P105','PR00005');

insert into In\_Patient\_Prescription values('P106','PR00006');

insert into In\_Patient\_Prescription values('P107','PR00007');

insert into In\_Patient\_Prescription values('P108','PR00008');

insert into Prescribed\_Medicines values('PR00001','AMOXICILLIN','TWICE A DAY','Ranbaxy');

insert into Prescribed\_Medicines values('PR00002','AMANTADINE','ONCE A DAY','DEF');

insert into Prescribed\_Medicines values('PR00003','MACROLIDE','ONCE A DAY','Ranbaxy');

insert into Prescribed\_Medicines values('PR00004','AMOXICILLIN','THRICE A DAY','XYZ');

insert into Prescribed\_Medicines values('PR00005','LIDOCAINE','TWICE A DAY','JKL');

insert into Prescribed\_Medicines values('PR00006','TYLENOL','ONCE A DAY','MNO');

insert into Prescribed\_Medicines values('PR00007','AMOXICILLIN','THRICE A DAY','PQR');

insert into Prescribed\_Medicines values('PR00008','LIDOCAINE','TWICE A DAY','Ranbaxy');

insert into Hospital\_Bill values(1020,'18-MARCH-2017','P101',10000,'CASH',12);

insert into Hospital\_Bill values(1021,'30-JANUARY-2020','P220',200000,'CREDIT CARD',15);

insert into Hospital\_Bill values(1022,'30-MAY-2020','P103',11000,'DEBIT CARD',20);

insert into Hospital\_Bill values(1023,'28-FEBRUARY-2020','P104',15000,'DEBIT CARD',13);

insert into Hospital\_Bill values(1024,'30-JANUARY-2020','P105',20000,'CREDIT CARD',05);

insert into Hospital\_Bill values(1025,'09-APRIL-2017','P106',7000,'CASH',22);

insert into Hospital\_Bill values(1026,'17-APRIL-2020','P107',3500,'CASH',18);

insert into Hospital\_Bill values(1027,'12-JUNE-2020','P108',42000,'DEBIT CARD',10);

insert into Hospital\_Bill values(1028,'05-JUNE-2020','P103',2000,'DEBIT CARD',21);

insert into Hospital\_Bill values(1029,'09-JUNE-2020','P103',15000,'DEBIT CARD',20);

insert into Lab\_Tests values('T0001','P101','13-MARCH-2017','11:00');

insert into Lab\_Tests values('T0002','P220','12-JANUARY-2020','09:00');

insert into Lab\_Tests values('T0003','P103','03-JANUARY-2020','10:00');

insert into Lab\_Tests values('T0004','P104','19-FEBRUARY-2020','09:30');

insert into Lab\_Tests values('T0005','P105','26-AUGUST-2019','16:00');

insert into Lab\_Tests values('T0006','P106','02-MAY-2020','17:00');

insert into Lab\_Tests values('T0007','P107','03-MAY-2020','13:00');

insert into Lab\_Tests values('T0008','P108','03-MAY-2020','14:00');

insert into test\_types values('TT0001','URINE TEST',26,74,'LAB','S0001');

insert into test\_types values('TT0002','CT',15,20,'LAB','S0002');

insert into test\_types values('TT0003','Blood Sugar Level',18,28,'LAB','S0003');

insert into test\_types values('TT0004','XRAY TEST',38,52,'LAB','S0001');

insert into test\_types values('TT0005','CT TEST',12.5,14.2,'LAB','S0005');

insert into test\_types values('TT0006','URINE TEST',12,22,'LAB','S0001');

insert into test\_types values('TT0007','XRAY',19,29,'LAB','S0009');

insert into test\_types values('TT0008','Blood Glucose Level',2,10,'LAB','S0008');

insert into Test\_Results values('T0001','TT0001','POSITIVE');

insert into Test\_Results values('T0002','TT0002','NEGATIVE');

insert into Test\_Results values('T0003','TT0003','NEGATIVE');

insert into Test\_Results values('T0004','TT0004','POSITIVE');

insert into Test\_Results values('T0005','TT0005','NEGATIVE');

insert into Test\_Results values('T0006','TT0006','NEGATIVE');

insert into Test\_Results values('T0007','TT0007','POSITIVE');

insert into Test\_Results values('T0008','TT0008','NEGATIVE');