**TABLE CREATION:**

**1. Doctor**

create table Doctors (

d\_id number(10),

d\_name varchar2(30),

d\_phone number(30),

d\_speciality varchar2(30),

d\_mail varchar2(30),

r\_id number(10)

);

alter table doctors add constraint cons1 primary key(d\_id)

alter table doctors add constraint cons1\_2 foreign key(r\_id) references receptionists(r\_id) on delete set null

alter table doctors add constraints cons1\_3 unique (d\_mail)

**2. dr\_exp (composite)**

create table dr\_exp(

d\_id number(10),

d\_experience varchar2(30));

alter table dr\_exp add constraint cons2 primary key(d\_id,d\_experience)

**3. rec\_phn (composite)**

create table rec\_phn(

r\_id number(10),

r\_phone number(15)

)

alter table rec\_phn add constraint cons3 primary key(r\_id,r\_phone)

**4. Receptionists**

create table Receptionists (

r\_id number(10),

r\_name varchar2(30),

duty\_schedule varchar2(30),

r\_salary number(30),

bb\_id number(10)

);

alter table receptionists add constraint cons4 primary key(r\_id)

alter table receptionists add constraint cons4\_2 foreign key(bb\_id) references blood\_bank(bb\_id) on delete set null

**5. Blood\_bank**

create table Blood\_bank(

bb\_id number(10),

b\_grp varchar2(30),

doner\_id number(10),

p\_id number(10)

);

alter table blood\_bank add constraint cons5 primary key(bb\_id)

alter table blood\_bank add constraint cons5\_2 foreign key(doner\_id) references doner(doner\_id) on delete set null

alter table blood\_bank add constraint cons5\_3 foreign key(p\_id) references patients(p\_id) on delete set null

**6. Doner**

create table Doner(

doner\_id number(10),

doner\_name varchar2(30),

doner\_age number(3)

);

alter table doner add constraint cons6 primary key(doner\_id)

alter table doner add constraint cons6\_2 check(doner\_age>=18)

alter table doner modify doner\_age int not null

**7. dnr\_rec (composite)**

create table dnr\_rec(

doner\_id number(10),

donate\_date date

);

alter table dnr\_rec add constraint cons7 primary key (doner\_id,donate\_date)

**8.nurses**

create table Nurses(

n\_id number(10),

n\_name varchar2(30),

n\_salary number(10),

n\_phone number(30));

alter table nurses add constraint cons8 primary key(n\_id)

**9. unit (relation)**

create table unit(

unit\_id number(10),

d\_id number(10),

n\_id number(10)

);

alter table unit add constraint cons9 primary key(unit\_id)

alter table unit add constraint cons9\_2 foreign key(d\_id) references doctors(d\_id) on delete set null

alter table unit add constraint cons9\_3 foreign key(n\_id) references nurses(n\_id) on delete set null

**10. n\_exp (composite)**

create table n\_exp(

n\_id number(10),

n\_experience varchar(30)

)

alter table n\_exp add constraint cons10 primary key(n\_id,n\_experience)

**11.Patients**

create table Patients (

p\_id number(10),

p\_name varchar2(30),

admit\_date date,

b\_grp varchar2(30),

dob date,

address varchar2(30),

r\_id number(10),

n\_id number(10)

);

alter table patients add constraint cons11 primary key(p\_id)

alter table patients add constraint cons11\_2 foreign key(r\_id) references receptionists(r\_id) on delete set null

alter table patients add constraint cons11\_3 foreign key(n\_id) references nurses(n\_id) on delete set null

alter table patients modify b\_grp int not null

alter table patients modify address default 'Bangladesh'

**12. p\_phn (composite)**

create table p\_phn (

p\_id number (10),

p\_phone number(15)

)

alter table p\_phn add constraint cons12 primary key(p\_id,p\_phone)

**13. records**

create table Records (

case\_no number(10),

disease varchar2(30),

bill number(30),

release\_date date,

r\_id number(10),

s\_id number(10)

);

alter table records add constraint cons13 primary key(case\_no)

alter table records add constraint cons13\_2 foreign key(r\_id) references reciptionists(r\_id) on delete set null

alter table records add constraint cons13\_3 foreign key(s\_id) references treatment(s\_id) on delete set null

**14. treatment (relation)**

create table treatment (

s\_id number(10),

d\_id number(10),

p\_id number(10)

);

alter table treatment add constraint cons14 primary key(s\_id)

alter table treatment add constraint cons14\_2 foreign key(d\_id) references doctors(d\_id) on delete set null

alter table treatment add constraint cons14\_3 foreign key(p\_id) references patients(p\_id) on delete set null

**CREATE SEQUENCE:**

**1. doctors(sec):**

create sequence d\_seq

start with 1001

increment by 1

nomaxvalue

nocycle

nocache

**2. patients(sec):**

create sequence p\_seq

start with 5001

increment by 1

nomaxvalue

nocycle

nocache

**Insert Values**

**1.Doctors(D\_id, D\_name,d\_phone D\_speciality, D\_mail, R\_id)**

insert into doctors values(d\_seq.nextval, 'Tony', 15264210, 'Surgon' , 'stark@gmail.com', 3001)

insert into doctors values(d\_seq.nextval, 'Steve', 15552641, 'Medicine', 'rogers@gmail.com', 3002)

insert into doctors values(d\_seq.nextval, 'Bruce', 15635842, 'Diagnostic', 'banner@gmail.com', 3003)

insert into doctors values(d\_seq.nextval, 'Clint', 15653149, 'Cardiology', 'barton@gmail.com', 3004)

insert into doctors values(d\_seq.nextval, 'Thor', 15486417, 'Physician', 'odinson@gmail.com', 3004)

**2.dr\_exp( D\_id, D\_experience )**

insert into dr\_exp values(1001, 'Apollo')

insert into dr\_exp values(1001, 'Square')

insert into dr\_exp values(1002, 'Shomorita')

insert into dr\_exp values(1002, 'Popular')

insert into dr\_exp values(1003, 'Labaid')

insert into dr\_exp values(1004, 'Square')

insert into dr\_exp values(1004, 'Greenland')

insert into dr\_exp values(1005, 'United')

**3.rec\_phn( R\_id, R\_phone )**

insert into rec\_phn values(3001, 55982)

insert into rec\_phn values(3002, 55983)

insert into rec\_phn values(3002, 55985)

insert into rec\_phn values(3003, 55984)

insert into rec\_phn values(3004, 55983)

**4.receptionists(R\_id, R\_name, duty\_schedule, R\_salary, BB\_id)**

insert into receptionists values (3001, 'Jon', '8.00-2.00', 15500, 5001)

insert into receptionists values (3002, 'Arya', '8.00-2.00', 18000, 5002)

insert into receptionists values (3003, 'Daenary', '2.00-11.00', 17000, 5003)

insert into receptionists values (3004, 'Sensa', '2.00-11.00', 14500, 5004)

**5.blood\_bank ( BB\_id, B\_grp, Doner\_id,p\_id )**

insert into blood\_bank values (501, 'A+', 9001, 5001)

insert into blood\_bank values (502, 'A-', 9002, 5001)

insert into blood\_bank values (503, 'B+', 9003, null)

insert into blood\_bank values (504, 'B-', 9004, 5004)

**6. doner ( Doner\_id, doner\_name)**

insert into doner values(9001, 'Ragnar',30)

insert into doner values(9002, 'Rollo',32)

insert into doner values(9003, 'Bjorn',21)

insert into doner values(9004, 'Lagartha',27)

**7.dnr\_rec ( Doner\_id , donate\_date )**

insert into dnr\_rec values(9001, to\_date('05-05-2019','dd-mm-yyyy'))

insert into dnr\_rec values(9001, to\_date('05-05-2020','dd-mm-yyyy'))

insert into dnr\_rec values(9002, to\_date('09-09-2019','dd-mm-yyyy'))

insert into dnr\_rec values(9003, to\_date('10-10-2020','dd-mm-yyyy'))

insert into dnr\_rec values(9003, to\_date('10-10-2019','dd-mm-yyyy'))

insert into dnr\_rec values(9004, to\_date('08-08-2019','dd-mm-yyyy'))

**8.nurses ( N\_id , N\_name, N\_salary, N\_phone )**

insert into nurses values(2001, 'Rebeka', 10000, 48314574)

insert into nurses values(2002, 'Haylay', 8500, 48231521)

insert into nurses values(2003, 'Freya', 9200, 48514365)

insert into nurses values(2004, 'Hope', 7800, 48612667)

insert into nurses values(2005, 'Davina', 9500, 48632141)

insert into nurses values(2006, ' Camille', 11000, 48426413)

**9.unit ( Unit\_id, N\_id, D\_id )**

insert into unit values(1, 1001, 2004)

insert into unit values(2, 1001, 2006)

insert into unit values(3, 1003, 2002)

insert into unit values(4, 1004, 2005)

insert into unit values(5, 1004, 2003)

insert into unit values(6, 1002, 2001)

**10.n\_exp ( N\_id, N\_experience )**

insert into n\_exp values(2001, 'United')

insert into n\_exp values(2002, 'Greenland')

insert into n\_exp values(2003, 'Apollo')

insert into n\_exp values(2004, 'Square')

insert into n\_exp values(2004, 'Popular')

insert into n\_exp values(2005, 'Labaid')

**11.patients ( P\_id, P\_name, b\_grp, admit\_date, DOB, address, R\_id, n\_id )**

insert into patients values(p\_seq.nextval, 'Stefan', to\_date('07-05-2020','dd-mm-yyyy'), 'A+', to\_date('05-07-1980','dd-mm-yyyy'), 'Virginia', 3001, 2002)

insert into patients values(p\_seq.nextval, 'Damon', to\_date('08-09-2020','dd-mm-yyyy'), 'A+', to\_date('09-08-1987','dd-mm-yyyy'), 'Mystic Fall', 3003, 2001)

insert into patients values(p\_seq.nextval, 'Elena', to\_date('15-09-2020','dd-mm-yyyy'), 'B-', to\_date('15-02-1991','dd-mm-yyyy'), 'French Quarter', 3001, 2004)

insert into patients values(p\_seq.nextval, 'Bonnie', to\_date('02-12-2020','dd-mm-yyyy'), 'AB+', to\_date('12-12-1987','dd-mm-yyyy'), 'Chicaho', 3002, 2001)

**12.p\_phn ( P\_id, P\_phone )**

insert into p\_phn values(5001, 88548123)

insert into p\_phn values(5001, 12658436)

insert into p\_phn values(5002, 56216444)

insert into p\_phn values(5003, 23165453)

insert into p\_phn values(5003, 52451325)

insert into p\_phn values(5004, 63564521)

insert into p\_phn values(5005, 54984564)

**13.records ( Case\_no, disease, bill, release\_date, R\_id,s\_id )**

insert into records values(101, 'Cancer', 40000, to\_date('25-09-2020','dd-mm-yyyy'), 3001, 803)

insert into records values(102, 'Covid19', 15000, to\_date('15-10-2020','dd-mm-yyyy'), 3003, 802)

insert into records values(103, 'AIDS', 100000, to\_date('25-12-2020','dd-mm-yyyy'), 3004, 801)

insert into records values(104, 'Liver Damage', 35000, to\_date('18-04-2020','dd-mm-yyyy'), 3001, 804)

insert into records values(105, 'Fever', 500, to\_date('25-06-2020','dd-mm-yyyy'), 3001,805)

**14.treatment ( s\_id,d\_id,p\_id )**

insert into treatment values(801, 1002, 5003)

insert into treatment values(802, 1002, 5004)

insert into treatment values(803, 1001, 5002)

insert into treatment values(804, 1005, 5003)

insert into treatment values(805, 1003, 5001)