**SQL Task**

**1. Created database and tables**

show databases;

create database hospital;

use hospital;

create table Doctor(

Doc\_ID char(5) not null,

Doc\_Name varchar(20),

Gender char(1),

DOB date,

Specialist varchar(20),

Qualification varchar(20),

Contact int,

Address varchar(50),

Dept\_No int,

primary key (Doc\_ID)

);

create table Department(

Dept\_No int not null,

Dept\_Name varchar(10),

Room\_No int,

Floor int,

HOD char(5),

Estd\_Date date,

primary key (Dept\_No)

);

create table Staff(

Staff\_ID char(5) not null,

Staff\_Name varchar(20),

Category varchar(20),

Designation varchar(20),

DOB date,

Contact int,

Address varchar(50),

Dept\_No int,

primary key (Staff\_ID)

);

create table Patient(

Pat\_ID char(5) not null,

Pat\_Name varchar(20),

DOB date,

Gender char(1),

Contact int,

Address varchar(50),

primary key (Pat\_ID)

);

create table In\_Patient(

Pat\_ID char(5) not null,

Date\_Of\_Admission date not null,

Bed\_No int,

Start\_Time datetime,

End\_Time datetime,

primary key (Date\_Of\_Admission)

);

create table In\_Patient\_Prescription(

Pat\_ID char(5),

Pres\_ID char(6)

);

create table Appointment(

App\_ID char(5) not null,

Pat\_ID char(5),

Doc\_ID char(5),

Nurse\_ID char(5),

Consult\_Room\_No int,

Date date,

Time time,

primary key (App\_ID)

);

create table Prescription(

Pres\_ID char(6) not null,

App\_ID char(5),

Date date,

time DATETIME,

Diagnosis\_Detail varchar(100),

primary key(Pres\_ID)

);

create table Prescribed\_Medicines(

Pres\_ID char(6) not null,

Medicine\_Name varchar(30) not null,

Dosage varchar(30),

Brand varchar(30),

primary key(Medicine\_Name)

);

create table Hospital\_Bill(

Inv\_No int not null,

Inv\_Date date not null,

Pat\_ID char(5),

Bill\_Amount int,

Payment\_Type varchar(30),

Discount int,

primary key (Inv\_No)

);

create table Lab\_Tests(

Test\_ID char(5) not null,

Pat\_ID char(5),

Date date,

Time datetime,

primary key (Test\_ID)

);

create table Test\_Results(

Test\_ID char(5) not null,

TT\_ID char(6) not null,

Result varchar(30)

);

create table Test\_Types(

TT\_ID char(6) not null,

Description VARCHAR(30),

Low\_Value int,

High\_Value int,

Test\_Method varchar(30),

Technician varchar(30),

primary key (TT\_ID)

);

alter table Doctor

add constraint Fk\_Doctor\_Dept\_No

Foreign key (Dept\_No) references Department(Dept\_No);

alter table Department

add constraint Fk\_HOD

Foreign key (HOD) references Doctor(Doc\_ID);

alter table Staff

add constraint Fk\_Staff\_Dept\_No

Foreign key (Dept\_No) references Department(Dept\_No);

alter table In\_Patient

add constraint Fk\_In\_Patient\_Pat\_ID

Foreign key (Pat\_ID) references Patient(Pat\_ID);

alter table In\_Patient\_Prescription

add constraint Fk\_In\_Patient\_Prescription\_Pat\_ID

Foreign key (Pat\_ID) references Patient(Pat\_ID);

alter table In\_Patient\_Prescription

add constraint Fk\_In\_Patient\_Prescription\_Pres\_ID

Foreign key (Pres\_ID) references Prescription(Pres\_ID);

alter table Appointment

add constraint Fk\_Appointment\_Pat\_ID

Foreign key (Pat\_ID) references Patient(Pat\_ID);

alter table Appointment

add constraint Fk\_Appointment\_Doc\_ID

Foreign key (Doc\_ID) references Doctor(Doc\_ID);

alter table Appointment

add constraint Fk\_Appointment\_Nurse\_ID

Foreign key (Nurse\_ID) references Staff(Staff\_ID);

alter table Prescribed\_Medicines

add constraint Fk\_Prescribed\_Medicines\_Pres\_ID

Foreign key (Pres\_ID) references Prescription(Pres\_ID);

alter table Hospital\_Bill

add constraint Fk\_Hospital\_Bill\_Pat\_ID

Foreign key (Pat\_ID) references Patient(Pat\_ID);

alter table Lab\_Tests

add constraint Fk\_Lab\_Tests\_Pat\_ID

Foreign key (Pat\_ID) references Patient(Pat\_ID);

alter table Test\_Results

add constraint Fk\_Test\_Results\_Test\_ID

Foreign key (Test\_ID) references Lab\_Tests(Test\_ID);

alter table Test\_Results

add constraint Fk\_Test\_Results\_TT\_ID

Foreign key (TT\_ID) references Test\_Types(TT\_ID);