

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),
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        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,

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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);
```