DBStructure

```
1
    CREATE DATABASE HOSPITALMANAGEMENTSYSTEM;
 2
 3
 4
 5
    CREATE TABLE PATIENTS(
            ID SERIAL PRIMARY KEY ,
 6
 7
            Name VARCHAR(100) NOT NULL ,
 8
            AGE INT NOT NULL ,
            Gender VARCHAR(15) NOT NULL);
 9
10
11
12
13
    CREATE TABLE DOCTORS(
14
            ID SERIAL PRIMARY KEY,
            Name VARCHAR(255) NOT NULL,
15
16
            Specialization VARCHAR(100) NOT NULL)
17
18
19
    CREATE TABLE APPOINTMENTS(
            ID SERIAL PRIMARY KEY ,
20
            PatientID INT NOT NULL ,
21
            DoctorID INT NOT NULL ,
22
23
            AppointmentDate DATE NOT NULL ,
            FOREIGN KEY (PatientID) REFERENCES Patient(ID),
24
            FOREIGN KEY (DoctorID) REFERENCES Doctor(ID) );
25
26
27
28
29
    ## INVOICE TABLE STRUCTURE
30
31
32
33
    CREATE SEQUENCE INVOICE_ID_SEQUENCE START WITH 2315;
34
35
    CREATE TABLE INVOICE (
36
            InvoiceID INT PRIMARY KEY DEFAULT NEXTVAL('INVOICE_ID_SEQUENCE'),
            AppointmentID INT NOT NULL,
37
            PaymentMethod VARCHAR(100) NOT NULL DEFAULT 'CASH',
38
39
            Amount DECIMAL(10,2) NOT NULL,
            TransactionDate DATE NOT NULL DEFAULT CURRENT_DATE,
40
41
            FOREIGN KEY (AppointmentID) REFERENCES APPOINTMENTS(ID)
    );
42
43
44
45
46
47
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```

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```
54
 55
     ## QUERY TO GET DETAILS REQUIRED FOR PRINTING THE INVOICE
 56
 57
         SELECT
 58
             PATIENTS.ID AS PatientID,
 59
             PATIENTS. Name AS PatientName,
 60
                          PATIENTS.Age,
 61
             PATIENTS. Gender,
 62
             INVOICE.InvoiceID,
 63
             INVOICE.PaymentMethod,
 64
             INVOICE. TransactionDate,
 65
               DOCTORS.Name AS DoctorName,
 66
             DOCTORS. Specialization,
 67
             APPOINTMENTS.ID AS AppointmentID,
 68
             APPOINTMENTS.AppointmentDate,
 69
             INVOICE. Amount,
 70
             Invoice.Discount
 71
         FROM
 72
             PATIENTS PATIENTS
 73
         JOTN
 74
             APPOINTMENTS APPOINTMENTS ON PATIENTS.ID = APPOINTMENTS.PatientID
 75
         JOIN
 76
             DOCTORS DOCTORS ON APPOINTMENTS.DoctorID = DOCTORS.ID
 77
         JOIN
 78
             INVOICE INVOICE ON APPOINTMENTS.ID = INVOICE.AppointmentID
 79
         WHERE
 80
             APPOINTMENTS.ID = ?
 81
 82
 83
 84
     ## QUERY TO GET APPOINTMENTS LIST
 85
 86
         SELECT
 87
             APPOINTMENTS.ID AS AppointmentID,
 88
             PATIENTS.Name AS PatientName,
 89
             DOCTORS.Name AS DoctorName,
 90
             APPOINTMENTS.AppointmentDate
 91
         FROM
 92
             APPOINTMENTS
 93
         JOIN
 94
             PATIENTS ON APPOINTMENTS.PatientID = PATIENTS.ID
 95
         JOIN
 96
               DOCTORS ON APPOINTMENTS.DoctorID = DOCTORS.ID
 97
 98
99
     ## QUERY TO GET TOTAL PAYMENT AMOUNT
100
101
         SELECT
102
             DOCTORS.Specialization
103
         FROM
104
             APPOINTMENTS
105
         JOIN
106
             DOCTORS ON APPOINTMENTS.DoctorID = DOCTORS.ID
107
         WHERE APPOINTMENTS. ID = 3;
```

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