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/* Tables */
CREATE TABLE Physician(
    ID BIGINT PRIMARY KEY NOT NULL IDENTITY(1,1),
    Name VARCHAR(63),
    Specialty VARCHAR(63)
);

CREATE TABLE Patient(
    ID BIGINT PRIMARY KEY NOT NULL IDENTITY(1,1),
    Name VARCHAR(63) ,
    PhoneNumber VARCHAR(15),
    ContactName VARCHAR(63),
    ContactNumber VARCHAR(15),
    PhysicianID BIGINT NOT NULL,

    INDEX ind_patient_physicianid (PhysicianID ASC)
    CONSTRAINT fk_patient_physicianid
        FOREIGN KEY (PhysicianID)
        REFERENCES Physician(ID)
        ON DELETE NO ACTION ON UPDATE NO ACTION
);
  
```

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CREATE TABLE Treatment(
    ID BIGINT PRIMARY KEY NOT NULL IDENTITY (1,1),
    Name VARCHAR(63),
    StartTime TIME,
    EndTime TIME,
    PatientID BIGINT NOT NULL,
    PhysicianID BIGINT NOT NULL,

    INDEX ind_treatment_patientid (PatientID ASC),
    INDEX ind_treatment_physicianid (PhysicianID ASC),
    CONSTRAINT fk_treatment_patientid
        FOREIGN KEY (PatientID)
        REFERENCES Patient(ID)
        ON DELETE CASCADE ON UPDATE CASCADE,
    CONSTRAINT fk_treatment_physicianid
        FOREIGN KEY (PhysicianID)
        REFERENCES Physician(ID)
        ON DELETE CASCADE ON UPDATE CASCADE
);

```

```

CREATE TABLE Medication(
    ID BIGINT PRIMARY KEY NOT NULL IDENTITY(1,1),
    Drug VARCHAR(127),
    Dosage INT,
    StartDate DATE,
    EndDate DATE,
    PatientID BIGINT NOT NULL,

    INDEX ind_medication_patientid (PatientID),
    CONSTRAINT fk_medication_patientid
        FOREIGN KEY (PatientID)
        REFERENCES Patient(ID)
        ON DELETE CASCADE ON UPDATE CASCADE
);

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```

CREATE TABLE LabExam(
    ID BIGINT PRIMARY KEY NOT NULL IDENTITY(1,1),
    Date DATE,
    Time TIME,
    PatientID BIGINT NOT NULL,

    INDEX ind_labexam_patientid (PatientID),
    CONSTRAINT fk_labexam_patientid

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        FOREIGN KEY (PatientID)
        REFERENCES Patient(ID)
        ON DELETE CASCADE ON UPDATE CASCADE
    );

CREATE TABLE SpecialDiet(
    ID BIGINT PRIMARY KEY NOT NULL IDENTITY(1,1),
    Breakfast VARCHAR(127),
    Lunch VARCHAR(127),
    Dinner VARCHAR(127),
    PatientID BIGINT NOT NULL,

    INDEX ind_specialdiet_patientid (PatientID),
    CONSTRAINT fk_specialdiet_patientid
        FOREIGN KEY (PatientID)
        REFERENCES Patient(ID)
        ON DELETE CASCADE ON UPDATE CASCADE
    );
```