Implementation Log

Script:

```
CREATE TABLE Bill(
SSN_FK integer NOT NULL,
Treatment_ID integer NOT NULL,
Amenity_ID integer NOT NULL,
Nights_Stayed integer NOT NULL,
Treatment_Flag integer NOT NULL DEFAULT 0,
Amenities_Flag integer NOT NULL DEFAULT 0,
Nights_stayed_Flag integer NOT NULL DEFAULT 0,
FOREIGN KEY(SSN_FK) REFERENCES patients(SSN)
ON DELETE CASCADE  ON UPDATE NO ACTION
);
CREATE TABLE Maintenance(
Name varchar NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Salary integer NOT NULL,
EmployeeID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Date_Of_Hire varchar NOT NULL,
Check_In_Time float NOT NULL,
Check_Out_Time float NOT NULL,
ManagementID_FK integer NOT NULL,
FOREIGN KEY (ManagementID_FK) REFERENCES Management(EmployeeID)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE sqlite_sequence(name,seq);
CREATE TABLE Sanitation(
Name varchar NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Salary integer NOT NULL,
EmployeeID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Date_Of_Hire varchar NOT NULL,
Check_In_Time float NOT NULL,
Check_Out_Time float NOT NULL,
ManagementID_FK integer NOT NULL,
FOREIGN KEY (ManagementID_FK) REFERENCES Management(EmployeeID)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Management(
```

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Name varchar NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Salary integer NOT NULL,
EmployeeID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Date_Of_Hire varchar NOT NULL,
Check_In_Time float NOT NULL,
Check_Out_Time float NOT NULL
);
CREATE TABLE Nurses(
Name varchar NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Salary integer NOT NULL,
EmployeeID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Date_Of_Hire varchar NOT NULL,
Check_In_Time float NOT NULL,
Check_Out_Time float NOT NULL
);
CREATE TABLE Doctors(
Name varchar NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Salary integer NOT NULL,
EmployeeID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Date_Of_Hire varchar NOT NULL,
Check_In_Time float NOT NULL,
Check_Out_Time float NOT NULL
);
CREATE TABLE Clerks(
Name varchar NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Salary integer NOT NULL,
EmployeeID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Date_Of_Hire varchar NOT NULL,
Check_In_Time float NOT NULL,
Check_Out_Time float NOT NULL
);
CREATE TABLE Patients(
SSN integer NOT NULL UNIQUE PRIMARY KEY,
DoctorID_FK integer NOT NULL,
Room_Number_FK integer NOT NULL,
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Diagnosis varchar NOT NULL,
Check_In_Date varchar NOT NULL,
Check_Out_Date varchar NOT NULL,
Name varchar NOT NULL,
Credit_Card integer NOT NULL,
Sex varchar NOT NULL,
Age integer NOT NULL,
Height float,
Weight float,
DOB varchar NOT NULL,
Phone_Number integer NOT NULL,
Address varchar,
FOREIGN KEY (DoctorID_FK) REFERENCES Doctor(DoctorID)
ON DELETE CASCADE ON UPDATE NO ACTION,
FOREIGN KEY (Room_Number_FK) REFERENCES Rooms(Room_Number)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Rooms(
Room_Number integer NOT NULL UNIQUE PRIMARY KEY,
MaintenanceID_FK integer NOT NULL,
SanitationID_FK integer NOT NULL,
FOREIGN KEY (MaintenanceID_FK) REFERENCES Maintenance(EmployeeID)
ON DELETE CASCADE ON UPDATE NO ACTION,
FOREIGN KEY (SanitationID_FK) REFERENCES Sanitation(EmployeeID)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Assigned_To(
Room_Number_FK integer NOT NULL,
SSN_FK integer NOT NULL,
FOREIGN KEY (Room_Number_FK) REFERENCES Rooms(Room_Number)
ON DELETE CASCADE ON UPDATE NO ACTION,
FOREIGN KEY (SSN_FK) REFERENCES Patients(SSN)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Assign(
ClerkID_FK integer NOT NULL,
Room_Number_FK integer NOT NULL,
FOREIGN KEY (Room_Number_FK) REFERENCES Patients(Room_Number_FK)
ON DELETE CASCADE ON UPDATE NO ACTION,
FOREIGN KEY (ClerkID_FK) REFERENCES Clerks(EmployeeID)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Take_Measurements(
```

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NurseID_FK integer NOT NULL,
SSN_FK integer NOT NULL,
FOREIGN KEY (SSN_FK) REFERENCES Patients(SSN)
ON DELETE CASCADE ON UPDATE NO ACTION,
FOREIGN KEY (NurseID_FK) REFERENCES Nurses(EmployeeID)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Treatments(
Medical_Imaging_ID_FK integer NOT NULL,
Medical_Imaging_Flag integer NOT NULL DEFAULT 0,
Surgery_Flag integer NOT NULL DEFAULT 0,
Materials_Flag integer NOT NULL DEFAULT 0,
PT_Flag integer NOT NULL DEFAULT 0,
TreatmentID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Medicine_Flag integer NOT NULL DEFAULT 0,
FOREIGN KEY (Medical_Imaging_ID_FK) REFERENCES Medical_Imaging(MedicalID)
ON DELETE CASCADE ON UPDATE NO ACTION
);
CREATE TABLE Amenities(
AmenityID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
Cafeteria_Flag integer NOT NULL DEFAULT 0,
Vending_Machines_Flag integer NOT NULL DEFAULT 0,
ATM_Flag integer NOT NULL DEFAULT 0,
Wifi_Flag integer NOT NULL DEFAULT 0,
Uber_Flag integer NOT NULL DEFAULT 0,
Price float NOT NULL
);
CREATE TABLE Medical_Imaging(
MedicalID integer NOT NULL UNIQUE PRIMARY KEY AUTOINCREMENT,
XRay_Flag integer NOT NULL DEFAULT 0,
MRI_Flag integer NOT NULL DEFAULT 0,
Cat_Flag integer NOT NULL DEFAULT 0,
Ultra_Flag integer NOT NULL DEFAULT 0
);
```

Table with Activities and Descriptions:

Date	Activity	Description
4.05.2019	Created Schema	Started using system for the first time.
4.05.2019	Created Patients, Clerks, Doctors, Nurses, Mangement, Sanitation, Maintenance tables	Created all the people
4.05.2019	Created Bill, Amenities, Treatments, Medical_Imaging, Rooms tables	Created tables associated with Bill/Pricing
4.05.2019	Created Assigned_To, Assign, Take_Measurements relationships	Created relationships for people
4.08.2019	Added NOT NULL, Autoincrement, and Default values	Made specific values for certain tables and attributes
4.08.2019	Everything working	After hours of clicking, schema is complete and no violations or reference errors.