Room Reservation Database Design Assessment

The purpose of this database design assessment is to simulate a hotel’s reservation system but designing tables and attributes along with their relations so hotel employees can track which rooms have reservations. The database also includes which amenities each room has along with the number of beds and the size of those beds. Guest information is also stored in the database along with general information about the guest such as their name, address, phone number, and email address. Below is a list of all the database entities and their attributes:

**Room**

**Primary Key: RoomNumber int NOT NULL**

NumOfBeds varchar(2) NOT NULL

BedSize varchar(10) NOT NULL

**RoomAmenities**

**Primary/Foreign Key 1: RoomNumber int NOT NULL**

**Primary/Foreign Key 2: AmenityNumber int NOT NULL**

**Amenities**

**Primary Key: AmenityNum int NOT NULL**

AmenityType varchar(50) NOT NULL

**Guests**

**Primary Key: GuestID int NOT NULL**

GuestFirstName varchar(25) NOT NULL

GuestLastName varchar(50) NOT NULL

GuestAddress varchar(100) NOT NULL

GuestPhoneNumber varchar(10) NOT NULL

GuestEmail varchar(50)

**RoomReservations**

**Primary Key 1: ReservationID int NOT NULL**

Foreign Key 1: RoomNumber int NOT NULL

Foreign Key 2: GuestID int NOT NULL

StartDate date NOT NULL

EndDate date NOT NULL

NumberOfGuests char(2) NOT NULL