**Hotel Database Schema Documentation**

This document provides an overview of the database schema for a hotel management system, including the structure of tables, their relationships.

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**Overview**

The hotel database schema is designed to manage the information related to guests, rooms, and reservations. The schema includes three main tables: Guests, Rooms, and Reservations. Each table contains specific details pertinent to its domain and is interconnected through foreign key relationships.

**Schema Design**

**Guests Table**

The Guests table stores information about the hotel guests. Each guest is associated with a specific room and reservation.

* **guest\_id**: Primary key, unique identifier for each guest.
* **name**: Name of the guest.
* **email**: Email address of the guest.
* **phone\_number**: Contact number of the guest.
* **address**: Residential address of the guest.
* **date\_of\_birth**: Date of birth of the guest.
* **room\_id**: Foreign key, references Rooms(room\_id).
* **reservation\_id**: Foreign key, references Reservations(reservation\_id).

**Reservations Table**

The Reservations table holds details of guest reservations. Each reservation is associated with one guest and one room.

* **reservation\_id**: Primary key, unique identifier for each reservation.
* **check\_in\_date**: Date of check-in.
* **check\_out\_date**: Date of check-out.
* **guest\_id**: Foreign key, references Guests(guest\_id).
* **total\_amount**: Total amount for the stay.
* **payment\_status**: Status of the payment (e.g., Paid, Unpaid).
* **booking\_date**: Date when the reservation was made.

**Rooms Table**

The Rooms table contains information about the rooms available in the hotel. Each room can be associated with multiple reservations over time.

* **room\_id**: Primary key, unique identifier for each room.
* **room\_number**: Room number.
* **type**: Type of the room (e.g., Single, Double, Suite).
* **price\_per\_night**: Cost per night for the room.
* **status**: Current status of the room (e.g., Available, Occupied).
* **floor**: Floor on which the room is located.
* **bed\_count**: Number of beds in the room.
* **reservation\_id**: Foreign key, references Reservations(reservation\_id).

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