

INTRODUCTION: This project is a **SQL-based Hotel Booking System** designed to manage data related to **hotels**, **rooms**, customers, and bookings. It helps organize and track room availability, customer reservations, and hotel details efficiently, making hotel management easier and more reliable.



- Efficiently manage hotel, room, customer, and booking information using a relational database.
- Prevent double bookings by accurately tracking room availability and status.
- Streamline the reservation process to improve user and administrative experience.
- Enable fast and accurate data retrieval through structured SQL queries.

TABLE 1: Hotels (This table stores information about hotels including their name, location, and rating.)

```
create table Hotels
(Hotel_id int primary key auto_increment,
Hotel_name varchar(100),
Location varchar(100),
Rating decimal(10,2));
```

TABLE 2: Customer (This table stores information about customers including their name, email, and phone number.)

```
create table customer
(customer_id int primary key auto_increment,
c_name varchar(100),
c_email varchar(100),
c_phone varchar(100));
```

TABLE 3: Rooms (This table stores details of rooms including type, price, status, and the hotel they belong to.)

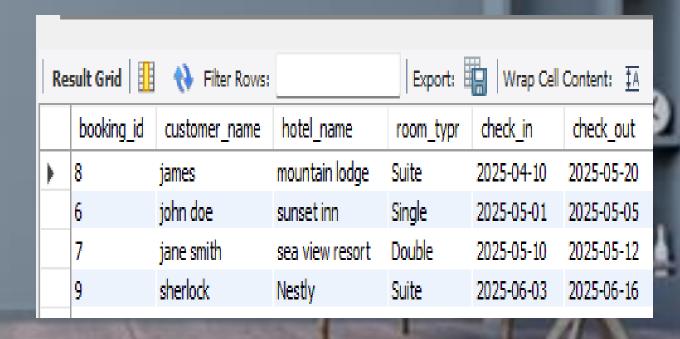
```
create table Rooms
(room_id int primary key auto_increment,
Hotel_id int,
room_typr varchar(100),
price decimal(10,2),
R_status varchar(20),
foreign key(Hotel_id) references Hotels(Hotel_id));
```

TABLE 4: Bookings (This table stores booking details including customer, room, check-in/check-out dates, and booking date.)

```
create table Bookings
(booking_id INT AUTO_INCREMENT PRIMARY KEY,
customer id INT,
room id INT,
check in DATE,
check out DATE,
booking_date DATE,
FOREIGN KEY (customer_id) REFERENCES Customer(customer id),
FOREIGN KEY (room id) REFERENCES Rooms(room id));
```

QUERY 1: Displays booking details with customer name, hotel name, room type, and check-in/check-out dates.

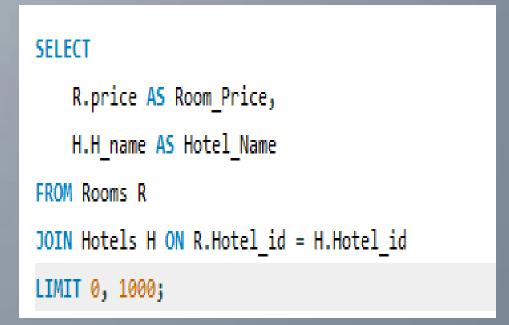
```
Select
    B.booking id,
    C.name AS customer name,
    H.name AS hotel name,
    R.room type,
    B.check in,
    B.check out
FROM Bookings B
JOIN Customers C ON B.customer_id = C.customer_id
JOIN Rooms R ON B.room_id = R.room_id
JOIN Hotels H ON R.hotel_id = H.hotel_id
ORDER BY B.check in;
```

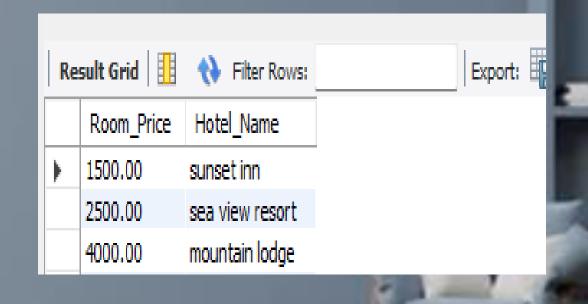


QUERY 2: Displays hotels with more than one booking along with the total number of bookings.

```
SELECT
    H.H name AS hotel name,
    COUNT(B.booking id) AS total bookings
from Bookings B
join Rooms R ON B.room id = R.room id
join Hotels H ON R.hotel id = H.hotel id
Group by H.H name
Having COUNT(B.booking id) >1 ;
```

QUERY 3: Displays room price along with the corresponding hotel name

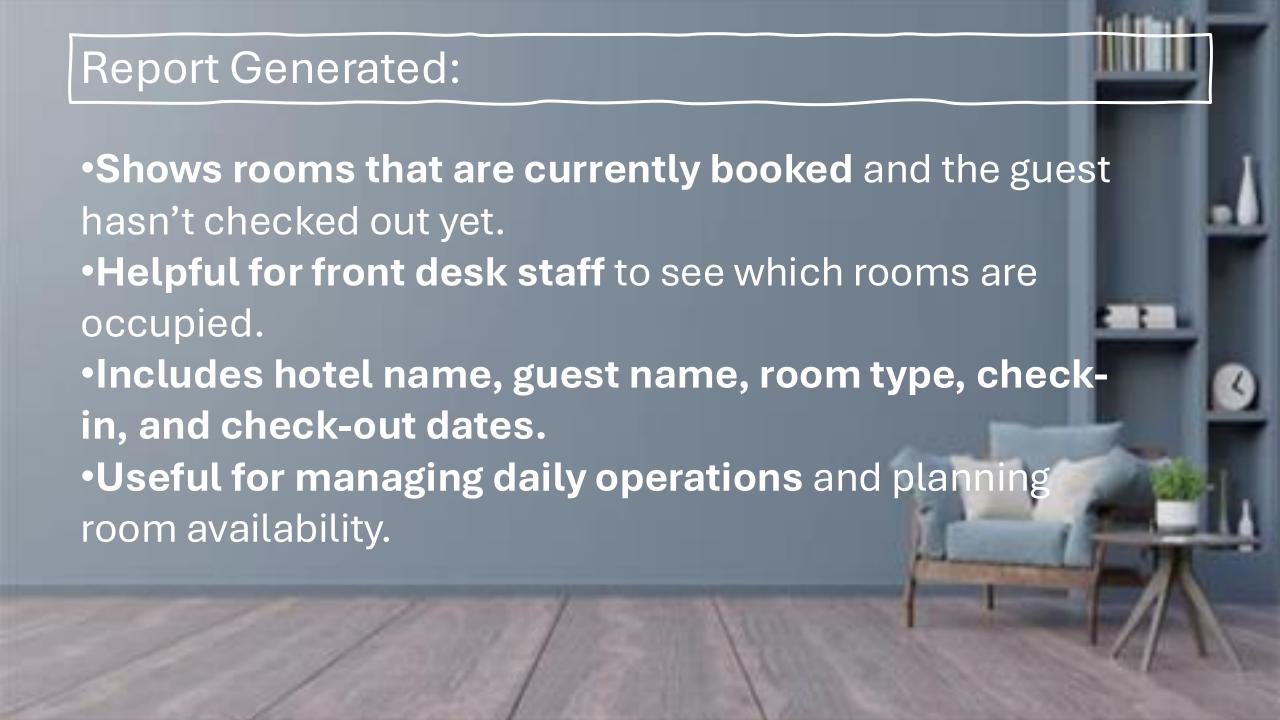




QUERY 4: Displays all customer contact details along with a sample prospect user using UNION.

```
Select c_name,c_email, c_phone FROM Customer
union
select 'Prospect User', 'prospect@example.com', '00000000000';
```

	Result Grid		Filter Rows:	Export:
		c_name	c_email	c_phone
	•	john doe	johndeo@34gamail.com	1235456667
L		jane smith	janesmith@gmail.com	98765432
		james	jamesdevid	456789321





Thank You

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