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create database Hotel;
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create table Guests (  
    guest_id int primary key auto_increment,  
    first_name varchar(20) not null ,  
    last_name varchar(20) not null ,  
    email varchar(50) not null unique ,  
    phone varchar(15) not null unique,  
    date_of_birth date not null ,  
    gender varchar(10) not null  
);
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create table Rooms(  
    room_id int primary key auto_increment,  
    room_number varchar(10) not null unique ,  
    room_type varchar(20) not null , -- e.g., Single,  
Double, Suite  
    capacity int ,  
    price decimal(10, 2) not null ,  
    availability_status varchar(20)  
);
```

```
create table Bookings (  
    booking_id int primary key auto_increment,  
    guest_id int,  
    room_id int,  
    check_in DATE not null ,  
    check_out DATE not null ,  
    total_amount decimal(10, 2),  
    booking_status varchar(25),  
    foreign key (guest_id) references Guests(guest_id),  
    foreign key (room_id) references Rooms(room_id)  
);
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create table RoomServices (  
    ServiceID int primary key auto_increment,  
    room_id int,  
    service_name varchar(20) not null ,  
    price decimal(10, 2),  
    foreign key (room_id) references Rooms(room_id)  
);
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create table Payments (  
    payment_id int primary key auto_increment,
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        booking_id int,
        payment_date date,
        amount decimal(10, 2),
        payment_method varchar(20), -- e.g., Credit Card,
Cash, etc.
        status varchar(20), -- e.g., Completed, Pending,
Refunded
        foreign key (booking_id) REFERENCES
Bookings(booking_id)
);

-- check
alter table Guests add constraint check (gender in
('male','female'));
-- Insert Data into Guests Table
insert into Guests (first_name, last_name, email,
phone,date_of_birth,gender) values
('danah', 'alsalmi', 'danah@hotmail.com',
'05410820182','1990-02-01','female'),
('naif', 'ahmed', 'naif@hotmail.com',
'0546782342','1980-01-01','male'),
('ahmed', 'almenjaf', 'ahmed@hotmail.com',
'0567892314','1999-09-09','male'),
('shaimaa', 'naif', 'shaimaa@hotmail.com',
'0564732123','2000-11-12','female'),
('hala', 'alsalmi', 'hala@hotmail.com',
'0563345218','2006-01-04','female');

-- Delete from Guests Table
delete from Guests where guest_id = 3;
-- Update in Guests Table
update Guests set email = 'danah.new@hotmail.com' where
guest_id = 1;

alter table Rooms add constraint check (room_type in
('single','double','suite'));
alter table Rooms add constraint check
(availability_status in ('available','occupied'));
-- Insert data into Rooms table
insert into Rooms (room_number, room_type, capacity,
price, availability_status)
values
('101', 'Single', 1, 100.00, 'available'),

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('102', 'Double', 2, 150.00, 'occupied'),
('103', 'Suite', 4, 300.00, 'available'),
('104', 'Single', 1, 100.00, 'occupied'),
('105', 'Double', 2, 150.00, 'available');

-- Delete from Rooms Table
delete from Rooms where room_id = 5;
-- Update in Rooms Table
update Rooms set availability_status = 'occupied' where
room_id = 1;

alter table Bookings add constraint check (booking_status
in ('confirmed','checked out','canceled'));
-- Insert data into Bookings table
insert into Bookings (guest_id, room_id, check_in,
check_out, total_amount, booking_status)
values
(1, 1, '2024-08-01', '2024-08-05', 400.00, 'confirmed'),
(2, 2, '2024-08-02', '2024-08-06', 600.00, 'checked
out'),
(4, 4, '2024-08-04', '2024-08-08', 400.00, 'canceled'),
(5, 5, '2024-08-05', '2024-08-09', 600.00, 'confirmed');

-- Delete from Bookings Table
delete from Bookings where booking_id = 5;
-- Update in Bookings Table
update Bookings set booking_status = 'canceled' where
booking_id = 1;

alter table RoomServices add constraint check
(service_name in ('Room Cleaning','Breakfast','Airport
Pickup','Laundry','Gym Access'));
-- Insert data into RoomServices table
insert into RoomServices (room_id, service_name, price)
values
(1, 'Room Cleaning', 50.00),
(2, 'Breakfast', 20.00),
(3, 'Airport Pickup', 75.00),
(4, 'Laundry', 30.00),
(5, 'Gym Access', 15.00);

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-- Delete from Room Services Table
delete from RoomServices where serviceid = 5;
-- Update in Room Services Table
update RoomServices set price = 25.99 where serviceid =
1;

alter table Payments add constraint check (status in
('Completed', 'Refunded', 'Pending'));
-- Insert data into Payments table
insert into Payments (booking_id, payment_date, amount,
payment_method, status)
values
(10, '2024-08-01', 400.00, 'Credit Card', 'Completed'),
(11, '2024-08-02', 600.00, 'Cash', 'Completed'),
(12, '2024-08-03', 1200.00, 'Credit Card', 'Refunded'),
(13, '2024-08-05', 600.00, 'Credit Card', 'Pending');

delete from Payments where payment_id = 4;
-- Update one row in the Payments table
update Payments set amount = 450.00, status = 'Completed'
where payment_id = 3;
```