

/* Hotel Management System*/

```
CREATE TABLE Hotel (  
    HotelID SERIAL PRIMARY KEY,  
    HotelName VARCHAR(100) NOT NULL,  
    Address VARCHAR(255),  
    Phone VARCHAR(20)  
);
```

```
CREATE TABLE Customer (  
    CustomerID SERIAL PRIMARY KEY,  
    FullName VARCHAR(100),  
    Email VARCHAR(100) UNIQUE,  
    Phone VARCHAR(20),  
    Address TEXT  
);
```

```
CREATE TABLE Room (  
    RoomID SERIAL PRIMARY KEY,  
    HotelID INT,  
    RoomNumber VARCHAR(10),  
    RoomType VARCHAR(50),  
    PricePerNight DECIMAL(10,2),  
    Availability BOOLEAN DEFAULT TRUE,  
    FOREIGN KEY (HotelID) REFERENCES Hotel(HotelID)  
);
```

```
CREATE TABLE Booking (  
    BookingID SERIAL PRIMARY KEY,  
    CustomerID INT,  
    RoomID INT,  
    CheckInDate DATE,  
    CheckOutDate DATE,  
    TotalAmount DECIMAL(10,2),  
    BookingStatus VARCHAR(20),  
    FOREIGN KEY (CustomerID) REFERENCES Customer(CustomertID),  
    FOREIGN KEY (RoomID) REFERENCES Room(RoomID)  
);
```

```
CREATE TABLE Staff (  
    StaffID SERIAL PRIMARY KEY,  
    HotelID INT,  
    Name VARCHAR(100),  
    Position VARCHAR(50),  
    Contact VARCHAR(20),  
    FOREIGN KEY (HotelID) REFERENCES Hotel(HotelID)  
);
```

```
CREATE TABLE ServiceRequest (  
    RequestID SERIAL PRIMARY KEY,  
    GuestID INT,  
    ServiceID INT,  
    RequestDate DATE,  
    Status VARCHAR(20),
```

```
FOREIGN KEY (GuestID) REFERENCES Customer(CustomerID),
FOREIGN KEY (ServiceID) REFERENCES Service(ServiceID)
);
```

```
CREATE TABLE Payment (
    PaymentID SERIAL PRIMARY KEY,
    BookingID INT UNIQUE,
    PaymentDate DATE,
    AmountPaid DECIMAL(10,2),
    PaymentMethod VARCHAR(50),
    FOREIGN KEY (BookingID) REFERENCES Booking(BookingID)
);
```

```
CREATE TABLE Service (
    ServiceID SERIAL PRIMARY KEY,
    ServiceName VARCHAR(100),
    Description TEXT,
    Charge DECIMAL(10,2)
);
```

```
CREATE TABLE Login (
    LoginID SERIAL PRIMARY KEY,
    UserType VARCHAR(10) CHECK (UserType IN ('guest', 'staff')),
    UserID INT,
    Username VARCHAR(50) UNIQUE NOT NULL,
    Password VARCHAR(255) NOT NULL,
    FOREIGN KEY (UserID) REFERENCES Customer(CustomerID) ON DELETE CASCADE
    DEFERRABLE INITIALLY DEFERRED
);
```

```
/* values*/
```

```
INSERT INTO Hotel (HotelID, HotelName, Address, Phone) VALUES
('The Grand Palace', '123 Main Street, Mumbai', '02212345678'),
('Sea Breeze Resort', 'Marine Drive, Mumbai', '02223456789');
```

```
INSERT INTO Customer (FullName, Email, Phone, Address) VALUES
('Amit Shah', 'amit@yahoo.com', '9123456789', 'Mumbai'),
('Nikita Verma', 'nikita@mail.com', '8989898989', 'Delhi');
```

```
INSERT INTO Room (HotelID, RoomNumber, RoomType, PricePerNight, Availability) VALUES
(1, '101', 'Deluxe', 4500.00, TRUE),
(1, '102', 'Standard', 3000.00, TRUE);
```

```
INSERT INTO Payment (BookingID, PaymentDate, AmountPaid, PaymentMethod) VALUES
(1, '2025-06-20', 13500.00, 'Credit Card'),
(2, '2025-06-21', 21000.00, 'UPI');
```

```
INSERT INTO Staff (HotelID, Name, Position, Contact) VALUES
(1, 'Raj Kumar', 'Manager', '9823012345'),
(1, 'Sunita Rani', 'Receptionist', '9811123456');
```

```
INSERT INTO Service (ServiceName, Description, Charge) VALUES
```

```
('Laundry', 'Washing and ironing of clothes', 300.00),  
('Spa', 'Relaxing massage service', 1500.00);
```

```
INSERT INTO ServiceRequest (customerID, ServiceID, RequestDate, Status) VALUES  
(1, 1, '2025-06-20', 'Completed'),  
(2, 2, '2025-06-21', 'Pending');
```

```
INSERT INTO Login (UserType, UserID, Username, Password) VALUES  
('customert', 1, 'nkitai_k', 'pass123'),  
('customer', 2, 'amit_s', 'pass456');
```