**Hotel Management System:**

-- Create Database

CREATE DATABASE HotelManagementSystem;

USE HotelManagementSystem;

-- Hotels Table

CREATE TABLE Hotel (

hotel\_code INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

city VARCHAR(255) NOT NULL,

manager\_id INT NOT NULL,

num\_rooms INT NOT NULL,

star\_rating INT NOT NULL

);

-- Rooms Table

CREATE TABLE Room (

room\_number INT NOT NULL,

hotel\_code INT NOT NULL,

type VARCHAR(50) NOT NULL,

price\_per\_night DECIMAL(10, 2) NOT NULL,

availability\_status BOOLEAN NOT NULL,

PRIMARY KEY (room\_number, hotel\_code),

FOREIGN KEY (hotel\_code) REFERENCES Hotel(hotel\_code)

);

-- Guests Table

CREATE TABLE Guest (

guest\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

loyalty\_level VARCHAR(50) NOT NULL,

booking\_history TEXT

);

-- Employees Table

CREATE TABLE Employee (

employee\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

role VARCHAR(50) NOT NULL,

hotel\_code INT NOT NULL,

shift\_details TEXT,

FOREIGN KEY (hotel\_code) REFERENCES Hotel(hotel\_code)

);

-- Bookings Table

CREATE TABLE Booking (

booking\_id INT AUTO\_INCREMENT PRIMARY KEY,

guest\_id INT NOT NULL,

room\_number INT NOT NULL,

hotel\_code INT NOT NULL,

check\_in\_date DATE NOT NULL,

check\_out\_date DATE NOT NULL,

total\_bill DECIMAL(15, 2) NOT NULL,

FOREIGN KEY (guest\_id) REFERENCES Guest(guest\_id),

FOREIGN KEY (room\_number, hotel\_code) REFERENCES Room(room\_number, hotel\_code)

);

-- Feedback Table

CREATE TABLE Feedback (

feedback\_id INT AUTO\_INCREMENT PRIMARY KEY,

booking\_id INT NOT NULL,

feedback\_text TEXT,

FOREIGN KEY (booking\_id) REFERENCES Booking(booking\_id)

);

**DATA:**

INSERT INTO Hotel (name, city, manager\_id, num\_rooms, star\_rating) VALUES

('Grand Hyatt', 'New York', 1, 200, 5),

('Marriott', 'Los Angeles', 2, 150, 4);

-- Inserting into Employee

INSERT INTO Employee (name, role, hotel\_code, shift\_details) VALUES

('John Doe', 'Manager', 1, 'Morning Shift'),

('Jane Smith', 'Receptionist', 1, 'Evening Shift'),

('Mark Lee', 'Manager', 2, 'Morning Shift');

-- Inserting into Room

INSERT INTO Room (room\_number, hotel\_code, type, price\_per\_night, availability\_status) VALUES

(101, 1, 'Deluxe', 200.00, TRUE),

(102, 1, 'Suite', 300.00, TRUE),

(201, 2, 'Standard', 150.00, TRUE);

-- Inserting into Guest

INSERT INTO Guest (name, loyalty\_level, booking\_history) VALUES

('Alice Brown', 'Gold', 'Booking 1, Booking 2'),

('Bob White', 'Silver', 'Booking 3');

-- Inserting into Booking

INSERT INTO Booking (guest\_id, room\_number, hotel\_code, check\_in\_date, check\_out\_date, total\_bill) VALUES

(1, 101, 1, '2025-06-01', '2025-06-05', 800.00),

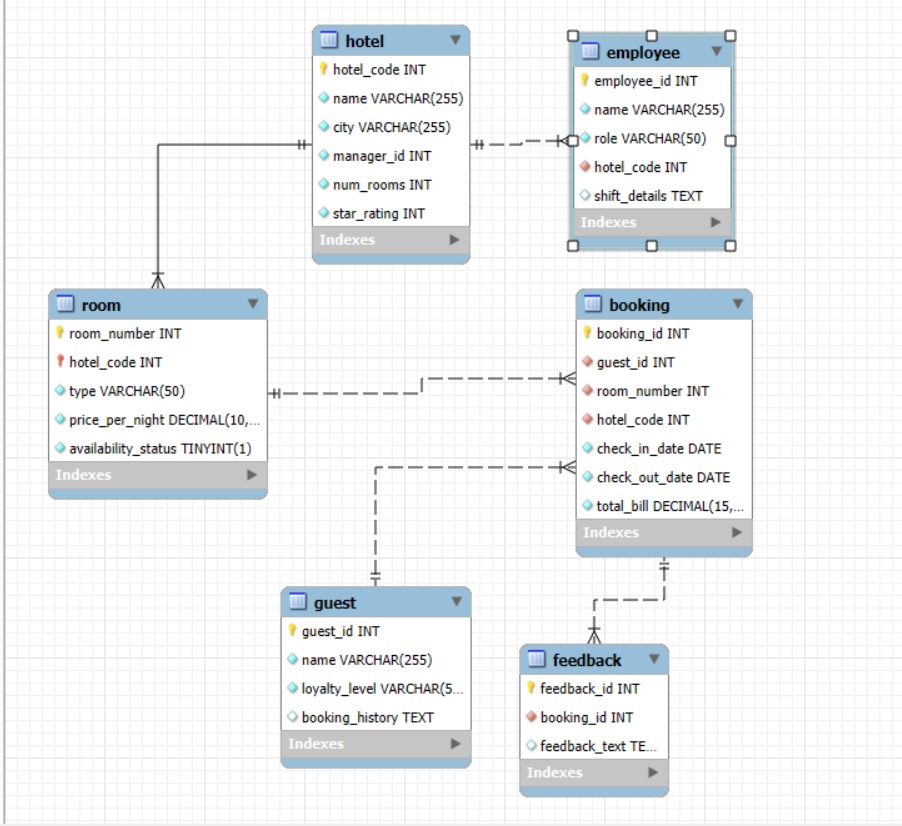
(2, 102, 1, '2025-06-03', '2025-06-07', 1200.00);

-- Inserting into Feedback

INSERT INTO Feedback (booking\_id, feedback\_text) VALUES

(1, 'Excellent service and amenities!'),

(2, 'Very comfortable stay.');

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