

Database Tables Scripts

```
Drop table if exists WDD_Final_Project_database;
```

```
create database WDD_Final_Project_database;
```

```
use WDD_Final_Project_database;
```

```
-- Temporary Form Data Table
```

```
CREATE TABLE temp_form_data (
    id INT AUTO_INCREMENT PRIMARY KEY,
    token VARCHAR(64) NOT NULL,
    form_data TEXT NOT NULL,
    expiry DATETIME NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    INDEX (token),
    INDEX (expiry)
);
```

```
-- Currency Table
```

```
CREATE TABLE currencies (
    currency_id INT AUTO_INCREMENT PRIMARY KEY,
    code VARCHAR(3) NOT NULL,
    name VARCHAR(50) NOT NULL,
    symbol VARCHAR(5) NOT NULL,
    is_active BOOLEAN DEFAULT TRUE
);
```

```
-- Core Tables
```

```
CREATE TABLE hotels (
    hotel_id INT AUTO_INCREMENT PRIMARY KEY,
```

```
city VARCHAR(100) NOT NULL,  
hotel_name VARCHAR(100) NOT NULL,  
address TEXT NOT NULL,  
hotel_image VARCHAR(255),  
title VARCHAR(200),  
description TEXT,  
contact_number VARCHAR(20),  
email VARCHAR(100),  
check_in_time TIME DEFAULT '14:00:00',  
check_out_time TIME DEFAULT '11:00:00',  
status ENUM('active', 'inactive') DEFAULT 'active',  
total_capacity INT NOT NULL DEFAULT 0,  
standard_rooms INT NOT NULL DEFAULT 0,  
double_rooms INT NOT NULL DEFAULT 0,  
family_rooms INT NOT NULL DEFAULT 0,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP  
);
```

```
CREATE TABLE room_types (  
room_type_id INT AUTO_INCREMENT PRIMARY KEY,  
type_name ENUM('Standard', 'Double', 'Family') NOT NULL,  
base_price_multiplier DECIMAL(4,2) NOT NULL,  
max_occupancy INT NOT NULL,  
description TEXT,  
distribution_percentage DECIMAL(5,2) DEFAULT 33.33,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP  
);
```

```
CREATE TABLE rooms (
```

```
room_id INT AUTO_INCREMENT PRIMARY KEY,  
hotel_id INT NOT NULL,  
room_type_id INT NOT NULL,  
room_number VARCHAR(10) NOT NULL,  
floor_number INT NOT NULL,  
base_price DECIMAL(10,2) NOT NULL,  
room_image VARCHAR(255),  
status ENUM('available', 'booked', 'maintenance') DEFAULT 'available',  
is_active BOOLEAN DEFAULT TRUE,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
FOREIGN KEY (hotel_id) REFERENCES hotels(hotel_id),  
FOREIGN KEY (room_type_id) REFERENCES room_types(room_type_id),  
UNIQUE KEY unique_room_hotel (hotel_id, room_number)  
);
```

```
CREATE TABLE room_features (  
feature_id INT AUTO_INCREMENT PRIMARY KEY,  
feature_name VARCHAR(50) NOT NULL,  
description TEXT,  
icon_class VARCHAR(50)  
);
```

```
CREATE TABLE room_feature_mapping (  
mapping_id INT AUTO_INCREMENT PRIMARY KEY,  
room_id INT NOT NULL,  
feature_id INT NOT NULL,  
FOREIGN KEY (room_id) REFERENCES rooms(room_id),  
FOREIGN KEY (feature_id) REFERENCES room_features(feature_id),  
UNIQUE KEY unique_room_feature (room_id, feature_id)  
);
```

```
-- User Management Tables

CREATE TABLE user_roles (
    role_id INT AUTO_INCREMENT PRIMARY KEY,
    role_name ENUM('admin', 'customer', 'staff') NOT NULL,
    permissions TEXT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

CREATE TABLE users (
    user_id INT AUTO_INCREMENT PRIMARY KEY,
    role_id INT NOT NULL,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    email VARCHAR(100) UNIQUE NOT NULL,
    password_hash VARCHAR(255) NOT NULL,
    phone_number VARCHAR(20),
    profile_image VARCHAR(255),
    address TEXT,
    is_active BOOLEAN DEFAULT TRUE,
    last_login DATETIME,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (role_id) REFERENCES user_roles(role_id)
);

-- Booking Related Tables

CREATE TABLE bookings (
    booking_id INT AUTO_INCREMENT PRIMARY KEY,
    booking_reference VARCHAR(20) UNIQUE NOT NULL,
    user_id INT NOT NULL,

```

```
    hotel_id INT NOT NULL,  
    room_id INT NOT NULL,  
    currency_id INT NOT NULL,  
    check_in_date DATE NOT NULL,  
    check_out_date DATE NOT NULL,  
    number_of_guests INT NOT NULL,  
    special_requests TEXT,  
    total_amount DECIMAL(10,2) NOT NULL,  
    discount_amount DECIMAL(10,2) DEFAULT 0,  
    final_amount DECIMAL(10,2) NOT NULL,  
    booking_date DATETIME NOT NULL,  
    status ENUM('pending', 'confirmed', 'cancelled') DEFAULT 'pending',  
    cancellation_charge DECIMAL(10,2) DEFAULT 0,  
    payment_status ENUM('pending', 'paid', 'refunded') DEFAULT 'pending',  
    notes TEXT,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES users(user_id),  
    FOREIGN KEY (hotel_id) REFERENCES hotels(hotel_id),  
    FOREIGN KEY (room_id) REFERENCES rooms(room_id),  
    FOREIGN KEY (currency_id) REFERENCES currencies(currency_id)  
);
```

```
CREATE TABLE booking_details (  
    detail_id INT AUTO_INCREMENT PRIMARY KEY,  
    booking_id INT NOT NULL,  
    guest_name VARCHAR(100) NOT NULL,  
    guest_email VARCHAR(100) NOT NULL,  
    guest_phone VARCHAR(20),  
    is_primary_guest BOOLEAN DEFAULT FALSE,  
    FOREIGN KEY (booking_id) REFERENCES bookings(booking_id)
```

```
);
```

```
-- Pricing & Rate Tables
```

```
CREATE TABLE seasonal_rates (
    rate_id INT AUTO_INCREMENT PRIMARY KEY,
    hotel_id INT NOT NULL,
    room_type_id INT NOT NULL,
    start_date DATE NOT NULL,
    end_date DATE NOT NULL,
    is_peak_season BOOLEAN DEFAULT FALSE,
    base_price DECIMAL(10,2) NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (hotel_id) REFERENCES hotels(hotel_id),
    FOREIGN KEY (room_type_id) REFERENCES room_types(room_type_id)
);
```

```
CREATE TABLE advance_booking_discount (
```

```
    discount_id INT AUTO_INCREMENT PRIMARY KEY,
    min_days INT NOT NULL,
    max_days INT NOT NULL,
    discount_percentage DECIMAL(5,2) NOT NULL,
    is_active BOOLEAN DEFAULT TRUE
);
```

```
CREATE TABLE exchange_rates (
```

```
    rate_id INT AUTO_INCREMENT PRIMARY KEY,
    from_currency_id INT NOT NULL,
    to_currency_id INT NOT NULL,
    rate DECIMAL(10,6) NOT NULL,
    last_updated TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
```

```
FOREIGN KEY (from_currency_id) REFERENCES currencies(currency_id),
FOREIGN KEY (to_currency_id) REFERENCES currencies(currency_id)
);
```

-- Authentication & Security Tables

```
CREATE TABLE user_sessions (
    session_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT NOT NULL,
    token VARCHAR(255) NOT NULL,
    ip_address VARCHAR(45),
    user_agent TEXT,
    expires_at DATETIME NOT NULL,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES users(user_id)
);
```

```
CREATE TABLE password_reset_tokens (
    token_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT NOT NULL,
    token VARCHAR(255) NOT NULL,
    expires_at DATETIME NOT NULL,
    used BOOLEAN DEFAULT FALSE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES users(user_id)
);
```

```
CREATE TABLE email_verification (
    id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT NOT NULL,
    token VARCHAR(64) NOT NULL,
    expires_at DATETIME NOT NULL,
```

```
    used BOOLEAN DEFAULT FALSE,  
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    FOREIGN KEY (user_id) REFERENCES users(user_id),  
    INDEX (token),  
    INDEX (expires_at)  
);
```

-- Cancellation & Status Tables

```
CREATE TABLE cancellation_policies (  
    policy_id INT AUTO_INCREMENT PRIMARY KEY,  
    days_before_checkin INT NOT NULL,  
    charge_percentage DECIMAL(5,2) NOT NULL,  
    is_active BOOLEAN DEFAULT TRUE  
);
```

```
CREATE TABLE booking_status_history (  
    history_id INT AUTO_INCREMENT PRIMARY KEY,  
    booking_id INT NOT NULL,  
    status ENUM('pending', 'confirmed', 'cancelled') NOT NULL,  
    changed_by_user_id INT NOT NULL,  
    changed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
    notes TEXT,  
    FOREIGN KEY (booking_id) REFERENCES bookings(booking_id),  
    FOREIGN KEY (changed_by_user_id) REFERENCES users(user_id)  
);
```

-- Transaction & Audit Tables

```
CREATE TABLE booking_transactions (  
    transaction_id INT AUTO_INCREMENT PRIMARY KEY,  
    booking_id INT NOT NULL,  
    amount DECIMAL(10,2) NOT NULL,
```

```
transaction_type ENUM('payment', 'refund') NOT NULL,  
status ENUM('pending', 'completed', 'failed') DEFAULT 'pending',  
payment_method VARCHAR(50),  
transaction_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
FOREIGN KEY (booking_id) REFERENCES bookings(booking_id)  
);
```

```
CREATE TABLE audit_logs (  
log_id INT AUTO_INCREMENT PRIMARY KEY,  
user_id INT,  
action VARCHAR(100) NOT NULL,  
table_name VARCHAR(50) NOT NULL,  
record_id INT,  
old_values JSON,  
new_values JSON,  
ip_address VARCHAR(45),  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
FOREIGN KEY (user_id) REFERENCES users(user_id)  
);
```

-- Additional Features Tables

```
CREATE TABLE hotel_amenities (  
amenity_id INT AUTO_INCREMENT PRIMARY KEY,  
hotel_id INT NOT NULL,  
amenity_name VARCHAR(100) NOT NULL,  
description TEXT,  
icon_class VARCHAR(50),  
FOREIGN KEY (hotel_id) REFERENCES hotels(hotel_id)  
);
```

-- Gallery Tables

```
CREATE TABLE gallery (
    gallery_id INT AUTO_INCREMENT PRIMARY KEY,
    title VARCHAR(100),
    image_url VARCHAR(500) NOT NULL,
    category VARCHAR(50),
    description TEXT,
    hotel_id INT,
    display_order INT DEFAULT 0,
    is_active BOOLEAN DEFAULT TRUE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    FOREIGN KEY (hotel_id) REFERENCES hotels(hotel_id)
);
```

-- Newsletter Tables

```
CREATE TABLE newsletter_subscribers (
    subscriber_id INT AUTO_INCREMENT PRIMARY KEY,
    email VARCHAR(100) UNIQUE NOT NULL,
    is_verified BOOLEAN DEFAULT FALSE,
    verified_at TIMESTAMP NULL,
    subscribed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    is_active BOOLEAN DEFAULT TRUE,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    updated_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    INDEX idx_subscriber_email (email),
    INDEX idx_subscriber_status (is_active)
);
```

```
CREATE TABLE newsletter_audit_log (
    audit_id INT AUTO_INCREMENT PRIMARY KEY,
    subscriber_id INT,
```

```
action ENUM('subscribe', 'unsubscribe', 'bounce') NOT NULL,  
ip_address VARCHAR(45),  
user_agent TEXT,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
FOREIGN KEY (subscriber_id) REFERENCES newsletter_subscribers(subscriber_id)  
);
```

```
CREATE TABLE notifications (  
notification_id INT AUTO_INCREMENT PRIMARY KEY,  
user_id INT NOT NULL,  
type VARCHAR(50) NOT NULL,  
message TEXT NOT NULL,  
is_read BOOLEAN DEFAULT FALSE,  
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,  
FOREIGN KEY (user_id) REFERENCES users(user_id)  
);
```

-- Contact Messages Table

```
CREATE TABLE contact_messages (  
message_id INT PRIMARY KEY AUTO_INCREMENT,  
name VARCHAR(100) NOT NULL,  
email VARCHAR(255) NOT NULL,  
subject VARCHAR(200) NOT NULL,  
message TEXT NOT NULL,  
created_at DATETIME NOT NULL,  
status ENUM('new', 'read', 'replied') DEFAULT 'new',  
updated_at DATETIME DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP  
);
```