

## Web Application Practice – Hotel Booking

An hotel would like to implement a web application to manage their room booking online.

The following information of each `Room` is stored:

`RoomID` – unique auto increment int to identify each room in the hotel.

`Level` – level of the room, e.g 07

`Unit` – unit of the room, e.g 18

`View` – view can only be either sea view, pool view or garden view

`RoomTypeID` – room type

The following information of each `RoomTypeInfo` is stored:

`RoomTypeID` – unique auto increment int to identify the type of room

`RoomType` – currently room type can only be either Deluxe Twin, Deluxe King or Suite

`Price` – original price for the room

`Promotion` – promotion percentage for the room, defaulted as 1.0, can range from 0.1 to 1.0, and should be displayed as percentage values such as 100% instead of 1.0 when shown in a webpage.

`RoomImage` – optional field, url link to image file for the room type

The following information of each `Customer` is stored:

`CustomerID` – unique string to identify the customer

`Name` – name of customer

`PassportNo` – passport number

`DoB` – date of birth of customer

`Country` – country of customer

`Address` – address of customer

The following information of each `BookingRecord` is stored:

`BookingNo` – unique autoincrement integer to identify the booking

`RoomID` – room id

`CustomerID` – customer ID

`StartDate` – Date to start

`NoOfDays` – No. of days the customer will stay in the hotel for this booking

`PaymentStatus` – can be either unpaid or paid

The information is to be stored in above mentioned four tables.

### **Task 1.1**

Create an SQL file to show the SQL code required to create the database with the above four tables.

### **Task 1.2**

Read the data from the csv files and write into the database.

### **Task 1.3**

Create a sql query to generate the **unpaid** outstanding bills for customer, **Derren Brett**.

The query should return details including:

Level, Unit, RoomType, Price, Promotion, StartDate, NoOfDays

### **Task 1.4**

Create a booking page where user is able to choose and select one room from the available types of the rooms using radio buttons. The page should display relevant information for all 3 types of rooms, and a date picker and text field for the user to select the starting date and number of days he/she wish to stay. The user should also enter his/her customer id for recording purposes.

You may assume there is no need for data validation in terms of room availability or clashes.

Upon success updating the database, a confirmation page should be displayed to confirm the booking with the user.