

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.