

Intro to Database System Design



Task 1 - Figi Waters Resort

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Purpose of the database

Hotels are known all over the world for their convenience for people who travel. No matter what one intends to do in a foreign country, state, or even the next city over, hotels are there to book with different amenities available based on how big a budget is. A database is a great way to store this information, because the desk attendant can easily book rooms for a guest over the phone, look up information regarding a guest's stay, check guests in and out at the beginning and end of their stay, and look up or change other information regarding the hotel employees or day to day activities.

Guests should also be able to book a stay online, find out basic information such as price and availability, as well as canceling their stay or making a change. Employees of the hotel should be able to change their shift or find out if they have been moved to a different operation for a certain shift.

Website / UI Requirements

For the website to access this database, there will be a home page from which one can access:

- Contact page: hours of the hotel, phone number, address, city and state
- Booking page: calendar to choose dates of stay, how much the security deposit is based on what room the customer chooses, and a place to include identification information
- General pricing page: includes examples of each room available, including how many beds each has, what amenities each has access to, and how many are available at time of booking

Data Requirements

- Hotel
 - Hotel ID number
 - Hotel City
 - Hotel State
 - Hotel phone number
 - Hotel address
 - Number of total rooms
- Desk Attendant / Management at the hotel
 - Timestamp of check in time
 - Timestamp of check out time
 - First Name of guest
 - Last Name of guest

- Phone number of guest
- Room Number of guest
- Check in date of guest
- Check out date of guest

- Room
 - Available (boolean)
 - Room number
 - Mini bar (boolean)
 - Number of beds
 - Type of beds
 - Last known time of housekeeping
 - Price per night
- Employee
 - Shift start
 - Shift end
 - Shift date
 - Timestamp of start of shift
 - Timestamp of end of shift
 - Work area for that shift
- Guest
 - Name
 - phone number
 - room number
 - check out date
 - Check in date
 - Mini bar tab
 - Room service tab
 - VIP room service tab
 - Length of stay
 - Security deposit
 - Over security deposit
 - Pool towel tab
 - Pool toys tab