

Database Project Report

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Hotel Reservation Database System

This database is designed to take data from a front-end booking system and input that data into the database. The database is divided into five tables, Reservation, guest, room, room_type, and billing.

The guest table contains basic biographical information about the booking guest. This data will be retained after the guest has left so that in the future should the guest revisit the data will be available without inputting the details again.

The reservation table is the main table in the database it holds many of the foreign keys to other tables and so is interconnected with them. It holds essential data for the customer's reservation, it connects the guest with their booked room as well as their arrival date and leaving date and connects to billing information in the billing table.

The room table holds the data for the hotel's rooms. Their IDs and their capacity is held here. It is the only table connected to the room_type table through the Type_ID foreign key.

The room_type table holds the pricing of each room based on type and a description of the type of room that it is. It is connected to the rest of the database through the Type_ID primary key which can be found in the Room table as a foreign key.

The Billing table holds the bill_Id primary key that connects to the Reservation table, billing date column which informs us when the bill for the accommodation was paid or displays a null value if it was not paid. The final column "paid" simply tells us whether the bill was paid or not.