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Hotel Database Documentation

Server Setup:
1. Setup MySQL v8 server
2. Insert the tables and trigger using "source tables.sql"
3. Insert the base data using "source insert.sql" or use .csv files to create insert statements
4. Compile program with "javac *.java"
5. Run with "java Driver"

Menu Option
1. View Rooms
   a. By selecting (1) information will be given about each room including
      i. Room name
      ii. Room popularity: a scale of 0 to 1 based on the percentage of the last 180 days the room was booked
      iii. Price
      iv. Open/Occupied - whether or not the room is open today
      v. Next opening - the next day that is not booked
      vi. Open until - the day after the next opening that the room is booked again there will be at least a one day gap
      vii. Bed type
      viii. Number Beds
      ix. Max Occupancy
      x. Decor
2. Search Availabilities
   a. Give parameters of rooms search
   b. Login or create new account
   c. Pick credit card or add new card
   d. Check out room
3. Cancel Booking
   a. By selecting (3) you have the ability to cancel your existing reservation
      i. By entering your Reservation ID number, your reservation will be cancelled and the details of your refund will be displayed on the screen
      ii. If you enter 0 as your Reservation ID number, the system will ask for your name and phone number and then search for all active reservations with this information
         1. If you have existing reservations, the system will ask if you want to cancel or make changes to the reservation or return to main menu

a. You will then enter your Reservation ID number where either you will make Changes to the Reservation or Cancel the Reservation with a valid Reservation ID
2. Otherwise, you will be prompted back to the main menu
4. Change Reservation
   a. By selecting (4) you have the ability to make changes to an active reservation
      i. By entering your Reservation ID, the system will ask if you wish to make changes to either the Dates or Room Type
         1. If Date is chosen, the system will ask for new check-in and check-out dates
            a. The system will search for availabilities with new dates and you will either receive confirmation of your new reservation or that your reservation cannot be completed due to conflicts and you will be prompted to a menu asking if you would like to cancel your reservation, change your reservation, or return to the main menu
         2. If Room is chosen, the system will show you room types that match the total number of guests you have in your current reservation and you will choose a new room type
            a. The system will search for availabilities with the new room type and original dates. You will either receive confirmation that your reservation has been successfully changed or that your reservation cannot be completed due to conflicts and you will be prompted to a menu asking if you would like to cancel your reservation, change your reservation, or return to the main menu
      ii. If you enter 0 as your Reservation ID, the system will ask for your name and phone number and then search for all active reservations with this information. Once you select a Reservation to Change, the options are the same as outlined above
5. View Guest History
   a. By selecting 5, you can enter the name and phone number of a user and see their history of reservations
6. Manager
   a. By selecting 6, the manager (with username "tkuboi" and password "CSC365") can see the revenue of every room for every month
7. End Program
   a. Quits the program