

Assignment5 - W1D6 – LESSON2, Part 3 – Writing SQL DML queries and statements continues:

In this assignment, you will continue making use of the Hotel database schema you implemented in Assignments 2 and 4. You are required to do the following:

1. If you have not already done it, Populate your Hotel database tables with the data, as given below:

Note: It is recommended that you populate the tables with the given data by writing and executing appropriate SQL INSERT statement, in code (i.e. DO NOT DO IT INTERACTIVELY USING the MySQL Workbench tool).

Hotel

hotelNo	hotelName	City
101	Marriott	Fairfield
102	Radisson	Chicago
103	Hilton	London
100	Marriott	Chicago

Room

roomNo	hotelNo	Type	Price
1	101	Executive	120
2	101	Standard	100
1	102	Standard	100
1	100	Executive	150
3	103	Standard	125
2	100	Standard	115

Guest

guestNo	guestName	guestAddress
1	Ana	12, John st
2	Bob	Null
3	Carlos	1000 N Court st

4	David	6 S Circle Dr
5	Elaine	19 Western Blvd
6	Filmon	90 Addis Way

Booking

hotelNo	guestNo	dateFrom	dateTo	roomNo
100	3	2021-1-16	2021-2-4	2
101	2	2021-1-13	2021-1-16	1
103	1	2021-2-9	2021-3-25	3
101	2	2021-2-10	2021-2-15	1
102	4	2021-3-4	2021-3-9	1

2. Using the Hotel database, which you now have fully populated with the above data, write SQL DML code for the following:
 - a. List the names and addresses of all guests living in Chicago, sorted alphabetically by their name, in descending order.
 - b. Display List of all Standard rooms with a price of below \$130.00 per night, including the room number, room type, price, hotel name and city; Have the list be sorted in order of the prices, from cheapest to most expensive.
 - c. List the bookings for which no dateTo has been specified
 - d. Display How many hotels are there?
 - e. What is the average price of a room?
 - f. Display list of all hotels that have been booked including for each hotel, how many bookings have been made and showing the hotel number, hotel name and city.
 - g. Display How many total bookings have been made?

- h. Display list of all guests in the database including both those who have booked a hotel room before and those who have not yet booked a hotel room and for each guest, include how many bookings they have made and show the guest number, guest name and address.
- i. Assume the Hotel guest named, Bob, has now provided his address as, "1490 Jersey Village Road". Write SQL DML code to update his information.
- j. Delete every the booking that has been made by the guest named, Bob, if it is scheduled after the month of January 2021.
- k. Due to the annual cost of inflation, the hotel needs to increase the prices of all Executive rooms by 5% and the prices of all Standard rooms by 3%. Write SQL DML code to do this.

// -- The End --//