8

EE436L: Database Engineering

Department of Electrical Engineering
University of Engineering and Technology Lahore 2019
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Name _____

Registration Number _____

Complex SQL Queries

Please populate the following schema with 7-8 relevant data elements and write down the queries given below:

HOTEL   (**hotelNo**, hotelName, city)
GUEST   (**guestNo**, guestName, guestAddress)
ROOM   (**roomNo, hotelNo**, type, price)
BOOKING   (**hotelNo, guestNo**, **dateFrom**, dateTo, roomNo)

1. What is the total revenue per night from all double rooms?
2. How many different guests have made bookings for August?
3. List the price and type of all rooms at the 'Avari' Hotel in Lahore.
4. List all guests currently staying at the 'Marriott' Hotel. ('system date' is used to determine current date)
5. What is the total income from bookings for the 'Hotel Inn' Hotel today?
6. List the rooms which are currently unoccupied at the 'Hotel Inn' Hotel.
7. What is the lost income from unoccupied rooms at the 'Hotel Inn' Hotel?
8. What is the lost income from unoccupied rooms at each hotel today?
9. For each hotel with more than two different types of rooms, what is the lost income from unoccupied rooms?
10. Update the price of all rooms by 2%.