Homework Assignment #4 – Chapter 6

For the following exercises, use the Hotel schema defined below:

Hotel (hotelNo, hotelName, city)
Room (roomNo, hotelNo, type, price)
Booking (hotelNo, guestNo, dateFrom, dateTo, roomNo)
Guest (guestNo, guestName, guestAddress)

where

Hotel contains hotel details and hotelNo is the primary key;
Room contains room details for each hotel and (roomNo, hotelNo) forms the primary key;
Booking contains details of bookings and (hotelNo, guestNo, dateFrom) forms the primary key;
Guest contains guest details and guestNo is the primary key.

1. List full details of all hotels.

2. List full details of all hotels in London.

3. List the names and addresses of all guests living in London, alphabetically ordered by name.

4. List all double or family rooms with a price below £40.00 per night, in ascending order of price.

5. How many hotels are there?

6. What is the average price of a room?

7. What is the total revenue per night from all double rooms?

8. List the number of rooms in each hotel.

9. What is the average number of bookings for each hotel in August?

10. What is the lost income from unoccupied rooms at each hotel today?