

CSC 321/621

Database Query Exercise

Assigned: Thursday 2/16/2012 @ 3:15pm

Due date: Wednesday 2/22/2012 @ 5:00pm

Given your hotel domain (corrected if needed) and my example insert values, implement SQL queries to satisfy the following requests. After you have successfully gotten a query working, copy it into a file you can upload.

These queries are effectively from the exercises at the back of the SQL Data Manipulation Statements chapter of the book, modified to support our particular use of the domain (for Deacon Boutique Hotels) and to ignore some we have used as examples.

Simple queries:

List full details of all hotels in Winston-Salem.

List full details on all double or queen rooms with prices < \$100.00 a night, in ascending order of price.

List the bookings which are active as of 2/21/2012 (meaning someone is actually occupying the room on 2/21).

Aggregate functions:

How many hotels are there?

What is the average price of a room across all hotels?

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

How many different guests have made bookings that start in February 2012?

Subqueries and joins:

What is the total income from bookings for the Winston Hotel on 2/21/2012?

List the rooms that are unoccupied at the Winston Hotel on 2/17/2012.

What is the lost income from unoccupied rooms at the Winston Hotel on 2/17/2012?

Grouping:

List the number of rooms in each hotel.

List the number of rooms in each hotel in Winston-Salem.

What is the average number of bookings across hotels in February?

List the names of guests with more than one booking in the system.

What is the most commonly booked room type for each hotel in Winston-Salem?