CPSC 2221-02 Lab 5

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1. **List full details of all hotels**SELECT \*   
   FROM Hotel;  
   **Table

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2. **List full details of all hotels in New York**SELECT \*   
   FROM Hotel   
   WHERE City = 'New York';  
   **Graphical user interface, text, application

   Description automatically generated**
3. **List the names and cities of all guests, ordered according to their cities**SELECT City, Name   
   FROM Guest   
   ORDER BY City;  
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4. **List all details for non-smoking rooms in ascending order of price**SELECT \*   
   FROM Room   
   WHERE Type = 'N';  
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5. **List the number of hotels there are**SELECT COUNT(Hotel\_No)   
   FROM Hotel;  
   **Table

   Description automatically generated**
6. **List the cities in which guests live. Each city should be listed only once.**SELECT City   
   FROM Guest   
   GROUP BY City;  
   **Graphical user interface, application, table

   Description automatically generated**
7. **List the average price of a room**SELECT AVG(Price)   
   FROM Room;  
   **Graphical user interface, application, table

   Description automatically generated**
8. **List hotel names, their room numbers, and the type of that room**SELECT Hotel.Name, Room.Room\_No, Room.Type   
   FROM Room JOIN Hotel   
   ON Hotel.Hotel\_No = Room.Hotel\_No;  
   **Table

   Description automatically generated**
9. **List the hotel names, booking dates, and room numbers for all hotels   
   in New York**SELECT Hotel.Name, Booking.Date\_From, Booking.Date\_To, Booking.Room\_No   
   FROM Hotel   
   JOIN Booking   
   ON Booking.Hotel\_No = Hotel.Hotel\_No   
   WHERE Hotel.City = 'New York'  
   **Table

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10. **What is the number of bookings that started in the month of September?**SELECT COUNT(Hotel\_No)   
    FROM Booking   
    WHERE Date\_From >= '1999-09-01' AND Date\_From < '1999-10-01';  
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11. **List the names and cities of guests who began a stay in New York in August**SELECT Guest.Name, Guest.City   
    FROM Guest JOIN Booking ON Guest.Guest\_No = Booking.Guest\_No JOIN Hotel ON Booking.Hotel\_No = Hotel.Hotel\_No   
    WHERE Hotel.City = 'New York'   
    AND Booking.Date\_From >= '1999-08-01'   
    AND Booking.Date\_From < '1999-09-01';  
    **Graphical user interface, application, table

    Description automatically generated**
12. **List the hotel names and room numbers of any hotel rooms that have not been booked**SELECT Hotel.Name, Room.Room\_No   
    FROM Hotel JOIN Room   
    ON Hotel.Hotel\_No = Room.Hotel\_No   
    WHERE Room.Room\_No   
    NOT IN(SELECT Room\_No FROM Booking)  
    **Table

    Description automatically generated**
13. **List the hotel name and city of the hotel with the highest priced room**SELECT Hotel.Name, Hotel.City   
    FROM Hotel JOIN Room   
    ON Hotel.Hotel\_No = Room.Hotel\_No   
    ORDER BY Room.Price   
    DESC LIMIT 1  
    **Graphical user interface, application

    Description automatically generated**
14. **List hotel names, room numbers, cities, andprices for hotels that have rooms with prices lower than the lowest priced room in a Boston hotel**SELECT Hotel.Name, Room.Room\_No, Hotel.City, Room.Price   
    FROM Hotel   
    JOIN Room   
    ON Hotel.Hotel\_No = Room.Hotel\_No   
    WHERE Room.Price <   
    (SELECT Room.Price   
    FROM Room   
    JOIN Hotel   
    ON Room.Hotel\_No = Hotel.Hotel\_No   
    WHERE Hotel.City = 'Boston'   
    ORDER BY Room.Price   
    LIMIT 1)  
    **Table

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15. **List the average price of a room grouped by city**SELECT Hotel.City, AVG(Room.Price) AS "Avg Price"   
    FROM Hotel   
    JOIN Room   
    ON Hotel.Hotel\_No = Room.Hotel\_No   
    GROUP BY Hotel.City  
    Graphical user interface, table

    Description automatically generated