SQL Assignment 2 Michael Houmann (MySql)

**Subqueries & joins**

1. **What is the average price of a room at Hotel Scandic?**

SELECT AVG(Price) FROM room WHERE room.Hotel\_No IN (SELECT hotel.Hotel\_No FROM hotel WHERE name LIKE “%Scandic%”)

SELECT AVG(room.Price) FROM room INNER JOIN hotel ON room.Hotel\_No = hotel.Hotel\_No AND hotel.Name LIKE “%Scandic%”

1. **How many bookings are there today at Scandic hotel?**

SELECT COUNT(\*) FROM booking WHERE booking.Hotel\_No IN (SELECT hotel.Hotel\_No FROM hotel WHERE hotel.Name LIKE “%Scandic%”) AND CURDATE() BETWEEN booking.Date\_From AND booking.Date\_To

SELECT COUNT(\*) FROM booking INNER JOIN hotel ON booking.Hotel\_no = hotel.Hotel\_No WHERE hotel.Name LIKE “%Scandic%” AND CURDATE() BETWEEN booking.Date\_From AND booking.Date\_To

1. **How many bookings are there tomorrow at Scandic hotel?**

SELECT COUNT(\*) FROM booking WHERE booking.Hotel\_No IN (SELECT hotel.Hotel\_No FROM hotel WHERE hotel.Name LIKE “%Scandic%”) AND DATE\_ADD(CURDATE(), INTERVAL +1 DAY) BETWEEN booking.Date\_From AND booking.Date\_To

SELECT COUNT(\*) FROM booking INNER JOIN hotel ON booking.Hotel\_no = hotel.Hotel\_No WHERE hotel.Name LIKE “%Scandic%” AND DATE\_ADD(CURDATE(), INTERVAL +1 DAY) BETWEEN booking.Date\_From AND booking.Date\_To

1. **List price and type for all rooms at 'Prindsen'**

SELECT room.Room\_No, room.Types, room.Price FROM room WHERE room.Hotel\_No IN (SELECT hotel.Hotel\_No FROM hotel WHERE hotel.Name LIKE “%Prindsen%”)

SELECT room.Room\_No, room.Types, room.Price FROM room INNER JOIN hotel ON room.Hotel\_No = hotel.Hotel\_No AND hotel.Name LIKE “%Prindsen%”

1. **List all guests, who presently stay at 'Prindsen**

SELECT guest.Guest\_No FROM guest INNER JOIN booking ON guest.Guest\_NO = booking.Guest\_No AND CURDATE() BETWEEN booking.Date\_From AND booking.Date\_TO INNER JOIN hotel ON booking.Hotel\_No = hotel.Hotel\_No WHERE hotel.Name LIKE “%Prindsen%”

1. **List rooms presently vacant (not booked) at 'Prindsen'.**

[SELECT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) room.Room\_No, room.Hotel\_No, booking.Date\_From, booking.Date\_To FROM room INNER JOIN hotel ON room.Hotel\_No = hotel.Hotel\_No [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) hotel.Name [LIKE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) "%Prindsen%" [LEFT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-functions.html#function_left) JOIN booking ON room.Room\_No = booking.Room\_No [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) CURDATE()BETWEEN booking.Date\_From [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) booking.Date\_To [IS](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is) NULL

1. **List all data about all rooms at 'Prindsen', including name of the guest staying at the give room, if the room is booked**

[SELECT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) room.Room\_No, room.Types, room.Price, guest.Name from room INNER JOIN hotel ON room.Hotel\_No = hotel.Hotel\_No [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) hotel.Name [LIKE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) "%Prindsen%" [LEFT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-functions.html#function_left) JOIN booking ON room.Room\_No = booking.Room\_No [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) CURDATE() BETWEENbooking.Date\_From [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) booking.Date\_To [LEFT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-functions.html#function_left) JOIN guest ON booking.Guest\_No = guest.Guest\_No

1. **What is the total income for all bookings at 'Prindsen' today?**

SELECT SUM(room.Price) FROM room INNER JOIN hotel ON room.Hotel\_No = hotel.Hotel\_No AND hotel.Name LIKE "%Prindsen%" INNER JOIN booking ON room.Room\_No = booking.Room\_No AND CURDATE() BETWEEN booking.Date\_From AND booking.Date\_To

1. **What is the total lost income from vacant (not booked) rooms at 'Prindsen'?**

[SELECT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [SUM](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)(room.Price) FROM room INNER JOIN hotel ON room.Hotel\_No = hotel.Hotel\_No [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) hotel.Name [LIKE](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-comparison-functions.html#operator_like) "%Prindsen%" [LEFT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/string-functions.html#function_left) JOIN booking ON room.Room\_No = booking.Room\_No [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) CURDATE() BETWEEN booking.Date\_From [AND](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_and) booking.Date\_To [IS](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/comparison-operators.html#operator_is) NULL