SQL Assignment 1 Michael Houmann (MySQL)

**Simple Queries**

1. List all data about all hotels.

SELECT \* FROM ‘hotel’;

1. List all data about all hotels in Roskilde.

SELECT \* FROM ‘hotel’ WHERE ‘Address’ LIKE ‘%Roskilde’;

1. List names and addresses of all guests from Roskilde.

SELECT ‘Name’, ‘Address’ FROM ‘guest’ WHERE ‘Address’ LIKE ‘%4000%’;

1. List names and addresses of all guests from Roskilde sorted in alphabetic order by name.

SELECT ‘Name’, ‘Address’ FROM ‘guest’ WHERE ‘Address’ LIKE ‘%4000%’ ORDER BY ‘Name’;

1. List all double rooms with a price less than 200 pr. night.

1. List all double rooms or family rooms with a price less than 400 pr. night.

1. List all double rooms or family rooms with a price less than 400 pr. night sorted in ascending order by price.

1. List all guests with a name starting with 'G'.

**Aggregate functions**

1. How many hotels are there?

1. How many hotels are there in Roskilde?
2. What is the average price of a room?
3. What is the average price of a single room?

13. What is the average price of a double room?

14. What is the total income pr. night for all double rooms?

15. How many different guests have made bookings in March?

[SELECT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/select.html) [COUNT](http://localhost/phpmyadmin/url.php?url=http://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(DISTINCT `Guest\_No`) AS 'Bookings in March' FROM booking WHERE(MONTH(Date\_From)) = 3;

**Grouping**

16. List the number of rooms for each hotel.

17. What is the average number of bookings for each hotel in this month?

**Populating & updating tables**

18. Insert new guests.

19. Insert a new hotel.

20.Insert rooms in the new hotel.

21. Insert bookings.

22.Increase the price for all rooms by 5%.