SELECT-exercises

(SQL Server )

1. Logon as usual
2. Start MySQL Workbench.
3. Choose the local server instance of MySQL.
4. Choose the database HotelDatabase.
5. Fast check the data in the four tables

1. Now you are connected to a database with the following tables:

HOTEL: (Hotel\_No, Name, Address)

ROOM: (Room\_No, Hotel\_No, Types, Price)

BOOKING: (Hotel\_No, Guest\_No, Date\_From, Date\_To, Room\_No)

GUEST: (Guest\_No, Name, Address)

(Primary keys are underlined.)

1. Now you are ready to start the following queries so start the query editor.

Remember that is a good idea to save the query in a script,. when the syntax is correct.

**Simple queries**

1. List full details of all hotels
2. List full details of all hotels in Roskilde
3. List the names and addresses of all guests from Roskilde
4. List the names and addresses of all guests from Roskilde alphabetically ordered by name.
5. List all double rooms with a price below 200 per night.
6. List all double or family rooms with a price below 400 per night
7. List all double or family rooms with a price below 400 per night, in ascending order of price.
8. List all guests, who has a name that starts with 'G'.

# **Aggregate functions**

1. How many hotels are there?
2. How many hotels are located in Roskilde?
3. What is the average price of a room?
4. What is the average price of a single room?
5. What is the average price of a double room?
6. What is the average price of a room at Hotel Scandic?
7. What is the total revenue per night from all double rooms?
8. How many different guests have made bookings for March month?
9. How many bookings are there at Scandic hotel today?
10. How many bookings are there at Scandic hotel tomorrow?

# **Subqueries and joins**

1. List the price and type of all rooms at 'Prindsen'.
2. List all guests currently staying at 'Prindsen'.
3. List the details of all rooms at 'Prindsen', including the name of the guest staying in the room, if the room is occupied.
4. What is the total income from bookings for 'Prindsen' today?
5. List the rooms that are currently unoccupied at 'Prindsen'.
6. What is the lost income from unoccupied rooms at 'Prindsen'?

# **Grouping**

1. List the number of rooms in each hotel.
2. List the number of rooms in each hotel in Roskilde.
3. What is the average number of bookings for each hotel in this month?.
4. What is the lost income from unoccupied rooms at each hotel this month?

# **Populating tables**

1. Insert new guests.
2. Insert a new hotel.
3. Insert rooms in the new hotel.
4. Insert bookings.
5. Update the price of all rooms by 5%.

## Find more queries yourself!