MySQL – Relational Databases: Workshop 2

Workshop contents:

- Running a script on MySQL Workbench to create the workshop database
- Writing SELECT queries
- Writing DELETE queries
- Writing UPDATE queries

Creating the workshop database tables:

1. Download the file "ambulance_db_create_withData.sql" from Canvas and save it to your desktop. Open the file with a text editor and make sure you understand all the SQL queries it contains. Make sure you also understand the structure of the database tables being created. Check how foreign keys have been declared for tables "RESERVATION" and "CREW_RIDE"

2. Using MySQL Workbench, open a session to your MySQL database on Microsoft Azure

3. Delete all tables from your database (if you have any; perhaps you have created in the previous workshop)

4. Run/import the file "ambulance_db_create_withData.sql" and check that all tables have been created and that you have test data in each table.

Running queries in MySQL Workbench

Writing simple **SELECT** queries: For each of the items below, write a query that returns …

1. The first name and last name of all the customers currently stored in the database
2. The phone number of the employee named Eveliina Järvinen
3. The customer ID(s) of all customers that made reservations for the date of 05.Mar.2024
4. The start time and end time of the reservation with ID 4565
5. The employee ID(s) of all nurses currently working for the company
6. The ID(s) of all reservations having a start time between 10:00 and 14:00
7. The ID(s) of all employees allocated to the reservation having ID 1101

… use **AND/OR** in the queries below:

8. The ID(s) of all reservations having start time earlier than 09:00 or later than 16:00
9. The ID(s) of all reservations allocated to ambulance IXC-233 made by the customer with ID equal to 4
10. The first name and last name of all doctors and drivers
11. The ID(s) of all reservations made for the mornings (start time between 06:00 and 12:00) of the month of

UPDATE queries: For each of the items below, write a query that changes …

12. The phone number of customer Markku Nieminen to "0452234165"
13. The end time of reservation having ID 4565 to 23:00

DELETE queries: For each of the items below, write a query that removes …

14. All reservations scheduled for dates earlier than or the same as 30 April of 2024

Note: You will notice that MySQL Workbench will issue an error when you try to execute this query. This is because ReservationID is a foreign key in table crew_ride, and you can not remove a reservation that has a row on crew_ride table. To move on with this exercise you need first to empty the table crew_ride