# Session 4

### Duration: 1.5 hours + presentation time

Run the script "*Session 4 start MSSQL.sql*" or "*Session 4 start MYSQL.sql*" to create a new database that contains all the necessary data to work in this session (do not use the database from the previous session).

#### 4.1

Using a SQL Server or MySQL management tool, extend the database with new tables in third normal form (3NF) and constraints needed to implement two new functionalities:

* The possibility that one clinic has several locations and several cities in which it works.
* Evaluating the appointment with a rating from 1 to 5 and optionally writing a comment. Be sure to remember the date and time when the grade was entered.

Create the necessary new tables in the database and link them to the existing ones. Of the constraints, it is necessary to define at least primary and foreign keys.

#### 4.2

Draw rough screen wireframes for the new mobile application that will use your extended database and allow users to log into the system, display all past appointments they have attended, and the possibility of rating them and writing comments.

#### 4.3

Prepare a Powerpoint document to help you present your database extensions from this session. Make the presentation 5 minutes long (an acceptable interval is [4:00, 5:30]). The presentation should contain at least the following elements:

* Description of new, updated and removed database elements (tables, columns, and constraints).
* Wireframes of the new mobile application.
* Slides for the introduction, conclusion, and questions from the audience.

The presentation should be in accordance with the visual identity.

The presentation will take place after the end of the 1.5 hours scheduled for the duration of this session.