Lab Training Database Systems 2020
Task 1

You were assigned to a defined use case for a database system (see moodle). At the end of this task, you have to submit a summary (PDF!) on Moodle with your results.

a) Connect to your Postgres Docker container. Create a new database. Afterwards, create the associated tables for your use case in SQL – do not forget to declare primary and foreign keys, and choose datatypes that would match their attribute!
=> **For the PDF**: Add the table creation commands of SQL along with comments on decisions (like datatypes you chose), if necessary

b) Insert tuples into the tables. Think of possible values and check if the primary and foreign keys of a) are working correctly. There should be at least 10 satisfying tuples in each table.
=> **For the PDF**: Add the first insert command that you executed (SQL) and all tuples that you inserted into the tables.

c) When your database is set up with tables and data, execute the given queries in SQL for your task. Additionally, think of <u>two more</u> possible queries (using a join and group by) that a user could pose to your system. Execute them also in SQL!
=> **For the PDF**: Write the queries down (your own in english, all five in SQL syntax) and append the respective output of your system.

Further comments on the first task:

I. You have to do it on your own, **do not copy&paste** commands and results from your fellow students!

II. When you have finished your tasks, upload the PDF on Moodle **within the given time**.