



Database System Concepts for Non-Computer Scientist - WiSe 25/26

<http://db.in.tum.de/teaching/ws2526/DBSandere/?lang=en>

Sheet 06

Preparation

To make sure we can interactively work on real world data next week, please execute the following steps beforehand. Otherwise, e.g., the internet connection in the lecture hall could be the bottleneck.

- (a) Install the DuckDB's Command Line Interface on your computer:
<https://duckdb.org/install/>
- (b) Download and unpack the dataset we will be using:
<https://db.in.tum.de/teaching/ws2526/DBSandere/dataset.zip>
- (c) Bring your computer to the lecture :)

Exercise 1

Bob has programmed a course catalog for the university and published it online at https://db.in.tum.de/teaching/ws2526/DBSandere/sql_catalog.html.

To make searching easier, the number of SWS can be limited through a parameter. Find a specially crafted parameter which, when entered, outputs the list of students instead of the lectures. The database follows the well-known university schema.

Bob learns about the security vulnerability and suggests renaming the known tables once using random names, arguing that this way they cannot be found. Would this *security measure* help?

Exercise 2

"Degree of popularity": Formulate an SQL query to determine the popularity of students. Assume that students know each other if they have attended the same lecture. Sort the result in descending order of popularity!