



Exercise for *Database System Concepts for Non-Computer Scientist* im
WiSe 18/19

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<http://db.in.tum.de/teaching/ws1819/DBSandere/?lang=en>

Sheet 09

Exercise 1

Answer the following questions on our university database using SQL:

- a) Calculate how many lectures each student is attending. Students who do not attend any lecture should be included in the result as well (*attend_count* = 0). This time, use outer joins.
- b) Figure out how many students are attending each lecture. Lectures which are not attended by any student should be included in the result as well (*attend_count* = 0). Again, use outer joins.

Exercise 2

Write a query that determines the kind of degree a student is pursuing. In our database, we assume that this can be deduced from the student's semester in the following way: A student who has not reached her 7th semester yet is still considered a "bachelor student". Once in the 7th semester she should be categorized as a "master student". Starting in the 11th semester, we label her "phd student".