



Computer Science Department
CSC 3300 Database Management Systems
Project3 (04/04/2023; Spring 2023)
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What to submit as a solution to Project3?

Zipped: java code and documentation in the PDF format.

Where to submit this file?

The dropbox in iLearn named Project3. The due date for this assignment is 04/18/2023 at 11:59pm. The end date for this assignment is 04/20/2023 at 11:59pm.

Rules

You may discuss on Teams what has to be done (clarification of the assignment's specification).

How this assignment will be graded?

Your submission has to meet the requirements to be given max number of points. Unaddressed aspects in this document are subject to your own decisions. Your program has to provide functionality described below, be of good quality and come with the documentation.

	Points No
Documentation of the code	10
Validation of user input	10
CLI	10
Documentation of the project	10
Using PreparedStatements (java.sql.PreparedStatement) vs. Statements (java.sql.Statement)	bonus 5 points
Functionality	60

Table 1: Grading

Implement a console java application that interacts with the University database described in the book entitled "Database System Concepts" by Avi Silberschatz, Henry F. Korth and S. Sudarshan.

Let the user of your app provide a username and password, which would correspond to the server's username and password.

1. The user of your program should be able to:
 - (a) Retrieve all info about departments, without info about their budgets.
 - (b) Add a course. Retrieve all info about courses (course_id, title, dept_name and credits). Delete a course. Update course's title and/or number of credits it is worth.

Additional requirements:

1. Document your code. For that, please write comments in the java file(s) with your code.

2. Validate user input. Your program shouldn't ever crash. For that, make sure that your program won't crash if the user e.g. provides value "abc" for a number of credits for a course.
3. Information displayed to the user (Command Line Interface) should be intuitive.
4. Use objects of type PreparedStatements and not of type Statement. For examples you can look at the slides 13-14 in the file Ch5.pdf.
5. Documentation for the project should include:
 - (a) User manual (screenshots are welcome).
 - (b) Implemented and not implemented functionality.
 - (c) Assumptions made regarding issues that were not explicit.
 - (d) Info about how to build and run your project. You can just state how you do it.

BONUS:

1. Record an up to 5min. video in which you present your deliverables and app. + 5%