

Database Management Systems Laboratory Experiments Phase 3

Subject : Develop your desktop database management module

Due Date : 06.01.2020

Advisor : R. A. (Nebi Yılmaz, Merve Özdeş)

Introduction:

In this assignment, you are expected to learn how to **i)** create database module for desktop **ii)** store system tables in database **iii)** obtain statistical data from database **iv)** use DML phrases like “insert, delete, and update” **v)** data normalization.

Requirements of the assignment:

Within the scope of this expectation, you are to develop a desktop application to obtain statistical data such as *count of the tables*, *name of the tables*, *count of the records in your own tables*, and etc. In addition that, your application must apply DML phrases like “insert, delete, and update”.

Note: There are no restriction for usage of operating system or programming language.

In this phase;

- You should show all your own tables together with statistical data in a grid view by applying queries on database.
- Your application must allow to insert, delete and update records.
- This phase requires you to normalize your data, for correctness and you should show relational scheme after each normal form of database.

In short, you are expected to develop a desktop database management module. Only transactions on tables will be sufficient.

Grading:

- Database connection: 15 p.
- Tables: 15 p.
- Description (The information of the tables): 15 p.
- Insert: 10 p.
- Update: 15 p.
- Delete: 15 p.

- Report: 15 p.

Submit Format:

→ <student id.zip>
→ diagram/*.pdf, jpg, png, and etc.)
→ report/*.pdf
→ program/*.zip

Notes

- Do not miss the deadline. Late submissions will not be accepted
- Save all your work until the assignment is graded.
- The assignment must be original, **group** work. **Duplicate or very similar assignments are both going to be considered as cheating.**
- You can ask your questions via e-mail (*yilmaz,merve[at]cs.hacettepe.edu.tr*)
- Report language must be in **English**.
- You will submit your work from <https://submit.cs.hacettepe.edu.tr> with the file hierarchy as above.
- You must submit **source codes** and **executable files**.
- Submit system will be opened **one student** in each project group. Student who is going to submit will be announced on website later.