

## Database Management Systems Laboratory Experiments Phase 3

**Subject :** Develop your desktop database management module

**Submission Date :** 24.04.2022

**Advisor :** Res. Assist.Ahmet ALKILINÇ, Ali Baran TAŞDEMİR

### 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.

### Submit Format:

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

### Notes

- Do not miss the deadline. Late submissions will be accepted until 3 days after the deadline. And it will be graded with a penalty.

- Save all your work until the assignment is graded.
- The assignment must be original, **individual** work. **Duplicate or very similar assignments are both going to be considered as cheating.**
- You can ask your questions via e-mail (*ahmetalkilinc*, *abtasdemir[at]cs.hacettepe.edu.tr*) or Piazza.
- Report language must be in **English**.
- You will submit your work from `https://evdekal.hacettepe.edu.tr` with the file hierarchy as above.
- You must submit **source codes** and **executable files**.