CSE 414 Databases – Spring 2022
Term Project
Deadline (03.06.2022 Friday, 23:55)

Suppose that you have a company. You want to create the database of your company.

· Describe the user requirements of your company.

· Draw the E-R diagram of the company.

· Do normalization.

· List the functional dependencies.

· List your tables.

· Create the database including everything (tables, relationships, keys etc.). You may use any database management system.

· Create the user interface of at least 5 modules using any programming language. Choose the interfaces according to the questions below.

· Create 1 outer right, 1 outer left, full outer query on user interface.

· Create and use at least 5 different triggers making completely different tasks. Show how they are working in your interfaces.

· Create and use at least 5 different views that are completely different from each other. Show how they are working in your interface.

Additional:

· Give and create at least 3 atomic transactions.

· For at least 3 tasks solve concurrency of transactions using any techniques in the book.

· Add additional details about the database if there is any.

· Use inheritance for the tables.

Note:

· Your E-R diagram should be as complex as the E-R diagram of student managements system example in the book. Which means, it should have many entities and relations.

· You have to prepare your project individually. This project is not a group Project.