Project Overview

Learning by doing is an important strategy to retain knowledge. This course teaches students the ability to develop a real-world database application. In this process, the students apply the theories and practice developed in class. This is *not* a team project. Instead, each student should complete it *independently*.

After this course, you should be able to

* identify, collect, and analyze the requirements
* make the requirements concrete by using ER modeling
* design a relational database
* load and query database
* improve performance using indexes and views
* develop a small web application

The project is incremental. Five deliverables are as follows:

Part #1. Project plan and database design using ER/EER data model

Part #2. Relational database design (tables, constraints)

Part #3. Database implementation using commercial DBMS (SQL)

Part #4. Performance analysis (bulk load, indexes, views)

Part #5. Application development (JDBC etc.)

More details for each assignment will appear later.