

DB Project 4: Application Program Development

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Course name: Database Systems

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This project is to develop an application program for the DB constructed. First, you create a DB schema using SQL DDL. Then, you should develop a DB application program using *Java and JDBC*.

1. Environment

- OS: Windows
- Language: Java (JDBC, <http://www.mysql.com/products/connector/>)
- DBMS: MySQL (<http://dev.mysql.com/downloads/windows/installer/5.6.html>)

2. Requirements

The application program provides the following functions.

- (1) A *create tables* function may have proper constraints.
- (2) An *insert* function, an *update* function, a *delete* function, and a *select* function for each table
 - The mandatory functions:
 - Insert each seller's product into a *product table*.
 - Insert each customer's order into an *order table*.
 - Insert each customer's rating into a specific table.
 - Select products using product ID.

All functions must be used from the *CLI (Command-Line Interface)*.

3. Submission

(1) Develop your application program using Java and JDBC.

(2) Write a report (*.HWP, *.DOC) on this project in English that contains

- Detailed explanations of your program/code
- Some screenshots
- SQL statements used

(3) Zip the codes and the report.

- The conventions for the zip file name
 - **{class name}_{student number}_{student name}_P{project number}.zip**
 - Class name
 - ✓ **A:** Mon 1:30~3:00pm, Wed 1:30~3:00pm class
 - ✓ **B:** Mon 3:00~4:30pm, Wed 3:00~4:30pm class
- Example: A_1234567890_YeonChangLee_P4.zip

4. Due date: 3 Dec. 2014, 24:00

5. Demo

You should *demonstrate the application program*. The process for demo are as follows:

(1) Each student submit the application program to HY-in by the due date.

(2) On the demo date, each student compile the codes submitted, execute the compiled classes, and then test a variety of operations.

If you want to submit the revised version after the due date, prepare the revised version on demo date. But, there will be some penalties for the late submissions.

Demo date and place will be announced later.