**Project 12**

**CSIS 304: Databases**

**Spring 2013**

**Due:** Submission - 04/14/13 (11:59 pm).

**Objectives**:

Develop practical skills to design and implement database systems.

**Tools:**

MS SQL Server 2008 R2, MySQL

**Description:**

Study chapters 10 and 11.

Class work:

Solve the following problems using MySQL:

* ~~Create and populate~~ *~~userid\_ch10\_SaleCo~~* ~~database (~~*~~ch10\_SaleCo.txt~~*~~)~~
* ~~Discover how to provide for the transaction processing in MySQL.~~
* ~~Write the SQL code for the transaction on p. 439.~~

Solve the following problems using MS SQL Server 2008 R2:

* Create an explicit transaction for the *SimpleCo* database.
* *Table hints* with examples.
* Basic *execution plan* analysis

Homework:

Solve the following problems using MySQL:

* ~~Create and populate~~ *~~userid\_ch10\_ABC\_Markets~~* ~~database (~~*~~ch10\_ABC\_Markets.txt~~*~~)~~
* ~~Study the problem 6. Solve problems 6a, 6b (pp. 464-465) using ROLLBACK.~~
* ~~Test 6a and 6b transactions with MySQL.~~
* ~~Execute 6a and 6b transactions using COMMIT.~~
* ~~Answer the following Review Questions: 1, 2, 12 and 14 (p. 498).~~
* ~~Solve the following problems and provide your answers with brief justification: 27-28 and 29-31 (p. 502)~~
* Submit the text file – *LastNameFirstName\_homework.txt* - that contains all SQL statements and your answers.

**Scoring Rubrics**

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| --- | --- | --- |
| **#** | **Feature** | **Score (%)** |
| **1** | Transaction processing for the ABC Markets | 20 |
|  | 6a ROLLBACK | 20 |
|  | 6b ROLLBACK | 20 |
| **2** | Review Questions: 1, 2, 12 and 14 | 20 |
| **3** | Problems 27-28 and 29-31 | 20 |
|  |  | 100 |