



COMPUTER-AIDED EDUCATIONAL MEASUREMENT AND EVALUATION SYSTEM FOR PRACTICES OF DATABASE COURSE STUDENTS

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Abstract

Courses with practice need additional time for measurement and evaluation of the students. This additional time causes a decrease in the number of practices and educators' performance nevertheless, the measurement and evaluation of many students might not be achieved properly. In order to overcome the difficulties mentioned above, a software which executes the necessary measurement and evaluation for "Database Course" lesson in short time for at the Computer Technologies Laboratory of Usak University.

Each student connects to a remote MySQL database server computer with his/her own computer and sends SQL query to perform practice stage given in Table 1 via MySQL Workbench that Database Management System Software. The designed and implemented software running on the server checks and scores accuracy of the queries of each student.

In this study, classic measurement and evaluation of each student who performed the practice stages given in Table 2 takes about 51 minutes and for the 54 attendants, it takes about half an hour. The designed and implemented software takes about 0.6 seconds for each student and for the 54 attendants; it takes about 34.8 seconds depending on the network performance. Since the developed system reduced the usage time in a ratio of 100 to 1 for the measurement and evaluation, the educational length of duration has become more efficiency.

Keywords: education, measurement, evaluation, database, sql.