The Development of an Online SQL Learning System with Automatic Checking Mechanism

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Abstract

Given the prominent role of e-Learning in information technology, an online programming learning system can only provide feedback information regarding correct or incorrect answers. For learners inputting an incorrect answer, those platform systems lack the ability to provide learning suggestions for learners. Only through a trial and error approach can learners identify the correct answer, thus diminishing the learning effectiveness of a given task. This work presents a novel e-learning system that provides detailed feedback, regardless of the correctness or incorrectness of programming exercise. A structured query language (SQL) e-learning system is developed based on intelligent agents and question answering. Furthermore, the proposed system records the learning log to reveal learner problems to teachers.

Keyword：SQL; Intelligent Agent; Question Answering; Feedback.