Abstract: During the last decades Internet has become an essential tool in the learning process of most of disciplines. Internet allows to access electronic resources (lessons, discussions tools, quizzes..) and this makes learning material easily accessible. This increases the opportunities of students who have difficulties attending lectures in schools, colleges or universities. The increasing relevance of e-learning led to the development of e-assessment tools that help the students to assess the improvement of their abilities. Most of these tools are based on questionnaires that are suitable for evaluating theoretical knowledge. However, these tools are not useful when they are applied to most Computer Science subjects. In order to evaluate the abilities of students for designing programs, it is necessary to use tools for determining the correctness of the solutions proposed. In this paper we introduce SQLab, an e-learning solution that allows students to check their skills designing SQL queries and allows instructors to improve the monitoring of student’s evolution.