

① Primary actor: Student

Description: a student tries to complete a rel. alg. lab on PL

Pre-con: student has successfully logged into PL, accessed their course

Post-con: If student successfully accessed the lab and completed the questions, all questions have been marked and feedback given

Main scenario

1. Student sees the question
2. Student enters attempted answer in Relax editor
3. Student tests query without submission
4. The output of query is displayed for the user
5. Student submits their answer
6. The question is automatically graded and the student receives feedback

Extensions

3a. Student's answer includes a formatting error

3a1. System issues error message telling student where the error is and to fix it

4a. Student is unsatisfied by their query's results

4b1. Student returns to step 2, entering a new answer

5a. Student's answer includes a formatting error

5a1. System issues error message telling student where the error is and to fix it



② Primary actor: Student

Description: a student tries to complete an SQL lab on PL

Pre-con: student has successfully logged into PL, accessed their course

Post-con: IS student successfully accessed the lab and completed the questions, all questions have been marked and feedback given

Main scenario

1. Student sees the question
2. Student enters attempted answer in a text editor
3. Student tests query without submission
4. The output of query is displayed for the user
5. Student submits their answer
6. The question is automatically graded and the student receives feedback

Extensions

3a. Student's answer includes a formatting error

3a1. System issues error message telling student where the error is and to fix it

4a. Student is unsatisfied by their query's results

4b1. Student returns to step 2, entering a new answer

5a. Student's answer includes a formatting error

5a1. System issues error message telling student where the error is and to fix it



③ Primary actor: Professor or lecturer

Secondary actors: Students

Description: During a lecture, a lecturer creates a question on PL to poll the class. ↓ not a form of this verb

Pre-con: The lecturer and students are all able to access PL and their course's page.

Post-con: Every student's answer to the lecturer's question have been marked and feedback given.

Main scenario

1. Lecturer enters question, selecting whether it is a relational algebra or SQL question
2. Lecturer submits the question
3. Lecturer observes the students' performance via the grade of their submitted answer

Extensions

2a. Lecture's question contains an error

2a1. The system informs the lecturer of the error, prompting them to correct it.

\* Between steps 2 & 3, students use use case ① or ②



Use case diagram for  
Practicelearn integration for  
COSC 304 labs.

