Relational Database Management Systems SEM-2 2022   Project 2022

Project 2022

SCML (Senior Citizens Mobile Library)

Attached Files: 📄 Project2022_DRAFT.pdf (204.459 KB)
                   📄 Project2022_FINAL.pdf (191.562 KB)

Project

This project is fairly short, and what you must submit is very short indeed.

Each part of Project involves understanding a fundamental concept in database integrity, and then demonstrating that understanding in code.

The pieces of code that you have to submit are ***very short indeed*** but the underlying concepts will take some of you some time to learn and fully understand.

We have tried to break the project into separate parts that can each be tested and marked separately, so that errors in one part of the project do not affect the other parts too much.

It is almost impossible to assign credit or partial credit to code that ***contains syntax errors*** and therefore cannot be tested by script. On the other hand, partial credit can be assigned to code that at least runs, even if it does not fully meet the specifications.

In other words, don't bother submitting code with syntax errors, but (if necessary) do submit code that is not completely correct, as long as it does something.

The marking will, as usual, be primarily based on correctness combined with some analysis of the code to ensure that it is reasonably straightforward and sensible.

Historically, the number one problem with the project is that some students seem compelled to deviate from the specifications, by adding features or flourishes that are not required, not wanted and sometimes cause the testing scripts to report that the code is incorrect.

Draft Document

The attached document is the ***first draft*** of the Project.

While we try to make the project specification as clear as possible, two pairs of eyes are no match for 500 pairs of eyes, and students inevitably find various parts of the project that are not fully specified or are ambiguous etc.

If you find such problems yourself, then please notify us at cits1402-pmc@uwa.edu.au.

Based on this feedback, we make various corrections or clarifications to the document and post it as the final draft, usually 4-6 days after the first draft.

You may start to work on the project knowing that the overall structure will not change, but you should make sure that you consult the final draft before you make your final submissions.

CURRENT LIST OF CORRECTIONS

These are errors / omissions that have been reported so far, but not yet incorporated into the project specification

- (Correction) The link to sqlite documentation should be https://www.sqlite.org/docs.html
- (Clarification) A client can be listed in the Client table even if they have not yet loaned any books (this affects the participation constraints in the ERD)
- (Correction) The UPDATE statement that is run when a book is returned should say "dateBack IS NULL" and not "dateOut IS NULL"
- (Correction) The datatype for publicationDate should be INTEGER and not TEXT