Application Number	M71
Applicant	Clément Aubert
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Team Members	
Туре	Revision of pre-existing OER
Course Number / Title	caubert@augusta.edu
Final	Spring 2020
Semester	
Grant Amount	\$2,800.00

CSCI 3410 - Database Systems Lecture Notes (Draft)
http://spots.augusta.edu/caubert/db/ln/ (licensed under the CC BY 4.0 licence).

## Description

My goal is to deliver a cross-platform, all-in-one resource on database systems for undergraduate, enthusiast high-school students, and persons in continuous training. The same document would be available to consult on-line (on a webpage), to print (as a pdf) as well as to edit (as a word document) and would contain:

- A large collection of exercises, exams, problems, as well as selected solutions,
- A "hands-on" guide to install, configure and run various database management systems,
- A compact guide to the most fundamental definitions and notions of the topic at stake.
- Organized and up-to-date references.

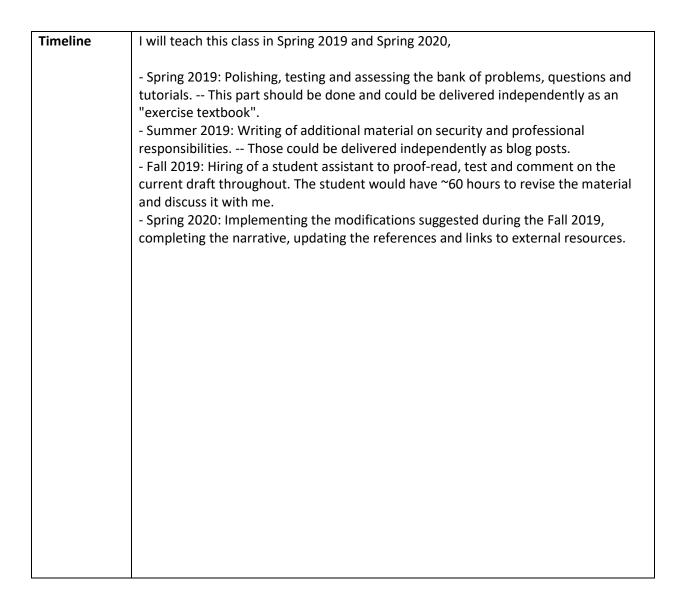
This document would be used

- in class, in place of an expensive textbook (Fundamentals of Database Systems (7th Edition),  $\sim$  \$185), as a support for teaching, as a replacement for individual homework, and to practice exams.
- as a possible complementary resource for AIST 3410 Database Management Systems, taught at Augusta University as well,
- as a reference guide by alumni,
- by anyone willing to practice core knowledge on database design, programming, study and implementation.

I believe this document would be well-received, for it fills the need for a textbook on database that

- 1. Incorporate the recent and popular NoSQL approach as a whole part, and not just as a side-topic,
- 2. Address the question of database from the design to its implementation in a streamlined way,
- 3. Place security at its core, instead of treating it as an afterthought.
- 4. Has its source code freely available and editable

A deep search on both https://www.merlot.org/ and https://open.umn.edu/ shows that no textbook meets all those requirement, and a total lack of res sources on NoSQL.



Budget	\$2,000: Salary for team member
2.0800	\$780: Salary for student assistant hired to test and proof-read the resource (\$13 an
	hour, for 4 hours per week during 15 weeks)
	\$10: Donation to Rocketgit (https://rocketgit.com/), an on-line-service that hosts the source-code of the project for free
	\$10: Donation to Pandoc (http://pandoc.org/), a free software used to typeset the document.

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