
* COMP 198	Introduction to SQL	*
<i>R</i>	<i>Lab/Lecture (DC 1315) – 9:30-10:50</i>	

Who: Michael Gousie
 Where: Discovery Center 1325
 When: Mon 1:30-3:00; Wed/Thu 2:30-4:00
 and by appointment
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 Web: <http://cs.wheatoncollege.edu/mgousie/comp198.html>

Content:

In this era of Big Data, databases are essential part of any organization. Databases store vast quantities of information in an organized way so that data can be retrieved quickly. In order to get the information one desires, one has to ask, or query, the database. This is where SQL (Structured Query Language) comes in. SQL allows the user to communicate with the database in a relatively easy and quick way. You will learn how to create, update, and modify a relational database using SQLite, and how to use SQL to access the data.

Required Text:

- *SQL QuickStart Guide* by Walter Shields. ClydeBank Media, 2024. There is a link on the course web page to the e-book version.

Requirements:

There will be three quizzes during the course of the semester. The quizzes will comprise 45% of your grade. These will be done both online using your laptop or the computers in csLab **and** on paper without the use of a computer. Quizzes will entail using SQLite and techniques discussed in class. There will be several homework assignments, roughly one week in length. These will be submitted electronically in Canvas and/or in class. The homework assignments account for 45% of your grade. The remaining 10% will come from a final project, due at the end of the semester.

There will not be a final exam (yay!).

Grading:

Grades will be assigned according to the following scale:

A = 93-100, A- = 90-92, B+ = 87-89, B = 83-86, B- = 80-82, C+ = 77-79, etc.

Quiz Schedule:

Exam	Weight	Date
Quiz 1	15%	October 1
Quiz 2	15%	November 5
Quiz 3	15%	December 10

Course Policies:

- You are responsible for all material covered in class.
- You are responsible for all reading (see Course Schedule, below).
- You will need a laptop to install the required (free) software.
- If you must miss a quiz or exam for any reason, you must inform me BEFORE the test. Except in the case of emergency, illness, or you've gotten irretrievably lost using the library entrance in the Discovery Center, makeup exams will not be given.
- Assignment due dates are FIRM.
 - Any electronic projects must be submitted electronically before class (9:29:59 AM) on the due date unless otherwise noted. Projects submitted on the following day will receive a 15% penalty. Anything turned in later will receive a 0. Hard copy, if required, must be submitted at the beginning of class or as instructed on the specification sheet.
 - Written homeworks/papers must be submitted at the beginning of class on the due date. There is no provision for turning homework in late.
 - Although deadlines are firm, please contact me **beforehand** if there are extraordinary circumstances. life *can* get complicated.
 - There will not be any individual “extra credit” work. If you did not have time to do a good job on the original assignment, how will you have time to do *additional* work?
- You are expected to adhere to the Honor Code.
 - Although *discussion* of assignments is encouraged, the *implementation* of homework problems and projects is to be the result of your own work. Any copying of projects or portions of projects will engender penalties.
 - Written homework/papers should absolutely be your own work.
 - Collaboration on exams/quizzes is prohibited.
 - AI can help you clear up confusion regarding a problem. It should not be used to solve the problem for you, unless you do not want to learn anything. Hence, much of this is up to you. Note that some of the problems on quizzes will be done on paper without the use of a computer or phone. Thus it is in your best interest to practice so that the quizzes will be easier.
 - You will be required to write and sign the pledge on all work turned in: *I have abided by the Wheaton Honor Code in this work.*
 - Any violation of the above guidelines will result in a 0 for that assignment or exam, and/or a failing grade for the course.
- The use of cell phones, iPhones, iPods, iPads, iPlops, iFlops, and other personal electronic devices is prohibited during class and exams.
- Please do not leave once class has begun. This is distracting to the class and to the instructor.

- Accommodations for disabilities:

Wheaton College is committed to providing equitable access and supportive services for all students to fully access and thrive in the academic, residential and social aspects of student life. Affirmatively, Wheaton provides appropriate accommodations for eligible students with documented disabilities to afford equal access to educational programs and services. Individuals with disabilities and other access concerns requiring accommodations or information on accessibility should reach out to Accessibility Services at the Filene Center:

~ accessibility@wheatoncollege.edu or (508) 286-3794 ~

Course Schedule (Subject to change)

Week	Date	Topic	Reading
	September		
1	Sep 3	Introduction; your computer	
2	Sep 10	What is a database?	Chapters 1 & 2
3	Sep 17	Using SQLite	Chapter 3
4	Sep 24	Basic SQL statements	Chapter 4
	October		
5	Oct 1	Quiz 1	
6	Oct 8	Refining queries	Chapter 5
7	Oct 15	No class - MAP Day	
8	Oct 22	Data from multiple tables	Chapter 6
9	Oct 29	Nothing more fun than functions	Chapter 7
	November		
10	Nov 5	Quiz 2	
11	Nov 12	Subqueries	Chapter 8
12	Nov 19	Virtual tables	Chapter 9
13	Nov 26	No class - Thanksgiving Break	
	December		
14	Dec 3	Data Manipulation Language	Chapter 10
15	Dec 10	Quiz 3	
16	Dec 14-18	Final exam week	