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CS 155A: MySQL Databases

Course Information

Course Number/Term:	CS 155A – Summer 2017
Instructor:	Hanan Ibrahim
Email:	hibrahim@ccsf.edu
Course Dates/Times:	TBA
Course URL:	https://ccsf.instructure.com/login/canvas

Course Description

A course that utilizes the MySQL database management system to create, query, and update database tables. The course covers both the syntax and logic of the major features of the MySQL language. Lastly, the course includes a brief introduction to the programming aspects of MySQL.

Course Prerequisites

There are no prerequisites for this course.

Student Learning Outcomes (SLOs)

Upon completion of this course, students will be able to:

SLO #1 – Describe the basic concepts of databases, tables, relationships, and normalization.

SLO #2 – Analyze business requirements; design and implement queries to satisfy those requirements using all of the major components of the SQL language for accessing data, including inner and outer joins, aggregate queries and subqueries and a variety of the intrinsic functions supplied by MySQL.

SLO #3 – Manipulate a MySQL database using client software to create and modify database objects such as tables, constraints, relationships, and views following a database design as well as design and implement simple user-defined functions.

SLO #4 – Create queries to manipulate data in the database using Data Manipulation Language statements.

Course Topics

This course includes the following major topics:
- Overview of relational database systems
- Relational database logical design
- Using clients to work with MySQL data
- Implementation of database objects with SQL Create statements
- Analysis of business requirements
- Accessing data via queries using the SQL Select statement
- Modification of the table data
- Introduction to creating stored routines

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Course Structure

This course will be delivered entirely online through the course management system Canvas. The CCSF website for this course (https://ccsf.instructure.com/) is where you will submit assignments, view grades, and participate in forums. To use this web page, you must log in using your CCSF student ID, and you must be enrolled in this class.

In Canvas, you will access online lessons, course materials, and additional resources.

Textbook
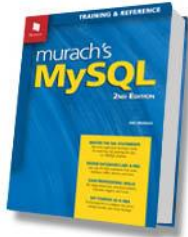
Required Textbook:
Murach's MySQL (2nd Edition) by Joel Murach
ISBN 978-1-890774-82-0

I post additional notes for this class.

MySQL Software

We will use the freely-available **MySQL** Database Server to work on exercises and programming assignments. Please install the software onto your computer.

You need to be able to use the command line interface as well as a graphical interface to MySQL. Download them through the link below:

MySQL Server: http://dev.mysql.com/downloads/mysql/

Reading Assignments

Weekly reading assignments will be posted on Canvas. Typically, you should set aside 3-4 hours to complete each reading assignment.

SQL Assignments

There will be weekly assignments throughout the semester. The SQL assignment due dates are Mondays at 11:59 PM, unless told otherwise. Assignments should be submitted through the Canvas website, and I will return assignment grading reports to the same website. Assignments are listed under "*Assignments*" in Canvas.

Submitting Assignments

Assignments will be in the form of SQL scripts. Scripts should be text only with the *.sql* extension. You will need to label your assignments with your first initial, last name, and the name of the assignment.
Example: *hibrahim_assignment1*.Zip the files to upload to Canvas (hibrahim_assignment1.zip).

Late Policy

There are weekly programming assignments that will be assigned every Monday and due by the following Monday at 11:59 p.m. unless specified otherwise. Assignments should be submitted through the Canvas website, and I will return assignment grading reports to you through the same website. Assignments are listed under "assignments" in Canvas.

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Programming assignments will be accepted after two days the original due-date. They will be considered late and will receive a 10% deduction, with no exceptions. For example, if a programming assignment is due on Monday at 11:59 p.m., it can be turned in by 11:59 p.m. on Wednsday.

I will not accept any assignment that is more than two days late. Plan your time carefully, and don't wait until the last minute to begin an assignment. Starting assignments early allows time for you to ask questions. I will provide feedback and post assignment grades within one week of the due date.

Quizzes

There will be weekly quizzes listed under "*Quizzes*" in Canvas containing a series of multiple-choice and short-answer questions to reinforce knowledge of SQL commands and relational database systems. Quizzes are always due on Wedensday by 11:59 PM. Unlike assignments, late submissions will NOT be accepted for the quizzes

Final Project

This is a comprehensive project that requires and integrates all of the skills you have learned throughout the course. This project focuses on relational databases and SQL; therefore, you will use the MySQL system to complete this project. Each student will design, create, and populate a working database from description requirements provided by the instructor.

Grades

This course allows Pass/No Pass grading. Check the official calendar for the deadline to make this choice. Points determine your final grade you earn in the following areas:

Submission	Total Points	Percentage %
SQL Assignments & Quizzes	500	50%
Final Project	100	10%
Midterm Exam	200	20%
Comprehensive Final Exam	200	20%
TOTAL	1000	100%

Grading Scale:

% of Points	Letter Grade
90 – 100	A
80 – 89	B
70- 79	C
60 – 60	D
< 60	F

An "**F**" grade indicates that a student attended, participated and completed the course but failed to master the course curriculum.

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Exams

Midterm Exam: This is an **online** exam scheduled on **Friday, July 10th , 2017**.

Final Exam: This is an **online** exam scheduled on **Friday, July 28th , 2017**.

These exams will be available for exactly 18 hours, starting 6:00 AM on the due date and closing at midnight. You must take the exams within that 18-hour period.

All exams and quizzes will take place on Canvas.

Do not wait until the last minute to take an exam as you are responsible for any unforeseen circumstances, such as technical problems. You may see true/false, multiple-choice, short-answer, and programming questions.

Make-up Exam Policy: NO MAKE-UP TESTS WILL BE GIVEN. If you know in advance that you are unable to make an exam for a valid and unavoidable reason, you must notify the instructor at least one week prior to the scheduled exam date to make arrangements for make-up. Failure to follow either of these policies will result in a zero. Appropriate documentation (as determined by instructor) and requisite permissions are required for make-up exam requests.

Communications

Discussion Forums

Since this is an online course that utilizes discussion forums, it is important for all students to participate in the course promptly actively. The Canvas Forum is the main place for our class discussion. You can ask questions regarding course materials, assignments, and exams on the forum. Students are expected to participate in all discussions. Please consider the following general participation expectations:

- Log in regularly and actively participate in the course activities.
- Complete the readings and view other instructional materials for each week before participating in the discussion board.
- Review your posts carefully before submitting them.
- Be respectful of others and their opinions

Think of these forums as our online classroom. The forums on the website are a good way of interact with other students, exchange thoughts, ask and answer questions as well as take part in the public discussion.

I will check the weekly forums daily and will respond to questions as needed. I also highly encourage students to read and respond to posts from fellow peers.

You must post an introduction in the first week of class, or you will be dropped as a "no show" according to the college requirements.

Do Not Post Homework Code

Whether you have a question or suggested answer, never post exact homework code to forums. Create a separate small program to display your issue.

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Private Messages

Please use public DT for any question or comment that involves understanding the modules, tests, or assignments. If you have a confidential question (grades or registration), use the Message Tool (MT) by first clicking on Inbox at the far left, then selecting this course and your intended recipient.

Withdrawals and Drops

To stay enrolled in this class, you must regularly participate in your assignments and exams.

You will be dropped by me for any of the following:
- Missing a scheduled test without prior notice will result in an automatic drop.
- If you do not login for nine (9) consecutive days, I will drop you.
- If you receive a zero on any two assignments, I will drop you.
- If you do not post an introduction in the first week, you will be dropped for non-participation.

If you decide to drop the course, you must go on Web4 (or go the Admissions Office yourself) to officially drop from the course, or you may receive a grade of 'F.'

. Standards of Conduct

Students who register in CCSF classes are required to abide by the CCSF Student Code of Conduct. Violation of the code is the basis for referral to the Student Conduct Coordinator or dismissal from a class or the College. See the Office of Student Affairs and Wellness.

Collaborating on or copying of tests or homework in whole or in part will be considered an act of academic dishonesty and result in a grade of 0 for that test or assignment. I encourage students to share information and ideas, but not their work. See these links on Plagiarism:

Encourage Academic Integrity and Prevent Plagiarism

Academic Accommodations

If you need classroom or testing accommodations because of a disability, or have emergency medical information to share with me, or need special arrangements in case the building needs to be evacuated, please make an appointment with me as soon as possible. Students seeking disability-related accommodations are also encouraged to register with Disabled Students Programs and Services located in Room 323 of the Rosenberg Library (415) 452-5481. Please see the DSPS website for more information and alternate locations.