

I. Course Information:

Title: Data Management

Course #: IS6030

Credit Hours: 2

Term: Fall 2020 – 2nd Half (Oct 12 – Dec 2)

Prerequisites: Enrollment in one of the following programs: 22DOC, 22GC, 22MAS.

II. Course Description:

This course provides an introduction to the use and design of databases to store, manipulate and query data. The course introduces the structured query language (SQL) used to manage data. Students who complete this course should understand how to use SQL for basic data manipulation and queries. This course is intended for users of existing databases to extract needed information and should not be taken by MSIS students or those students who wish to learn detailed database design techniques.

III. Student Learning Outcomes:

Upon successful completion of this course, the learner will be able to:

- Understand structure and properties of relational databases;
- Write successful SQL queries to explore data;
- Write successful SQL queries to extract and manipulate data.

IV. Instructor Information:

Name: Matt Risley

Title: Adjunct Instructor

Email: rileymy@ucmail.uc.edu

Office Hours: By Appointment (Via Webex)

Communication Policy: Students are encouraged to contact me anytime via email or phone. A response will be given within 36-48 hours except on weekends. Virtual office hours will be held using Webex (see Canvas for more information).

V. Course Materials

Required

- No texts required. Course notes will be provided.

Resources

- eBook (through UC Libraries)

- *T-SQL Fundamentals*, 3rd ed., by Itzik Ben-Gan. ISBN-13: 978-1509302000
- Webpage Tutorials
 - W3 Schools: <https://www.w3schools.com/sql/default.asp>
- Microsoft Development Network
 - <https://docs.microsoft.com/en-us/sql/?view=sql-server-ver15>

VI. Link to Pace:



This course aligns with PACE, the Lindner College of Business platform for developing the *total* business professional.

P – Professionalism

- Enhance oral & written **communication**, express ideas clearly, logically and persuasively.
- Develop and practice **teamwork** skills through group projects and exercises.
- Practice professional habits of punctuality, preparation, respect and participation.

A – Academics

- Develop foundational knowledge of core **business functions** and their interactions within firms.
- Begin applying functional and cross-functional knowledge **to critically analyze business problems**; for example applying techniques for business plan development.

C – Character

- Learn and apply **leadership** techniques for project management (plan, brief, execute, debrief).
- Build an understanding and initial skills of **managing diversity**, including understanding cultural differences, and challenges and opportunities of global business.
- Understand importance of **ethics and social responsibility** in business and personal settings.

E – Engagement

- Build understanding of importance and practices of **networking** through interactions with business professionals and guest speakers.
- Develop awareness and appreciation of **involvement** in social organizations, community service, and professional group opportunities.

VII. Instructional Methods:

This course utilizes the Canvas learning management system to provide student-centered online learning that will enhance the teaching and learning process. You can access Canopy through Bearcats Landing (<https://mailuc.sharepoint.com/sites/Intranet>) or directly (<https://uc.instructure.com/>). You will be automatically enrolled in a Canvas 101 course that will introduce you to the basics of how to use Canvas – you’ll see that course when you log in.

VIII. Duo Multi-Factor Authentication

To reduce data security risks posed by phishing to students, faculty, and staff, the University implemented two-factor authentication (Duo) across most of its systems, including Canvas. In order to access this class's course materials in Canvas, all students will need to enroll in Duo multi-factor authentication. [To enroll in Duo multi-factor authentication, please follow these instructions.](#) The Office of Information Security recommends using the Duo Mobile app on your smartphone for the quickest, most user-friendly experience. [Please see the FAQ on this page for a list of alternate options for accessing Duo that do not involve needing a smartphone.](#)

If you do not have access to your phone or other two-factor device, please contact the Lindner IT Service Desk at (513) 556-7159 to obtain a bypass code that will let you log in to Canvas. This code will allow you to log in once.

VIII. Course Communication:

University policy requires that the email set up in Canvas is the primary means of communication. It is advisable that you use your UC email for this purpose and that you check it often. If you choose to change your email in Canvas to a non-UC email it is your responsibility to ensure you check it frequently.

IX. Course and Grading Policies:

Course Structure:

Changes to the syllabus, due dates, course requirements or grading requirements will be made as far in advance as possible. Due dates will be clearly marked in Canvas. All assignments will be submitted via Canvas using a Word document, text file, or SQL file with the extension *.sql*.

Academic Integrity:

As with all Lindner College of Business efforts, in this course you will be held to the highest ethical standards, critical to building character. Ensuring your integrity is vital and ultimately is your responsibility. To help ensure the alignments of incentives, the Lindner College of Business has implemented a "Two Strikes Policy" regarding Academic Integrity that supplements the [UC Student Code of Conduct](#).

- All academic programs at the Lindner College of Business use this "Two Strikes Policy"; Any student who has been found responsible for two cases of academic misconduct may be dismissed from the College.
- All cases of academic misconduct (e.g., copying other students assignments, failure to adequately cite or reference, cheating, plagiarism, falsification, etc.) will be formally reported by faculty; and
- Students will be afforded due process for allegations as outlined in the policy.
**Note to Faculty Member: Please include your proposed sanctions for academic misconduct in your course syllabus.*

Special Needs Policy:

The University of Cincinnati is committed to providing all students with equal access to learning opportunities. [Accessibility Resources](#) is the official campus office that works to arrange for reasonable accommodations for students with identified physical, psychological, or cognitive disability (learning, ADD/ADHD, psychological, visual, hearing, physical, cognitive, medical condition, etc.). If you have a disability which may influence your performance in this course, you must meet with the [Accessibility Resources Office](#) to arrange for reasonable accommodations to ensure an equitable opportunity to meet all the requirements of this course. If you require accommodations due to disability, please contact Accessibility Resources at (513) 556-6823, Campus Location: 210 University Pavilion,

Counseling Services, Clifton Campus:

Students have access to counseling and mental health care through the [University Health Services](#) (UHS), which can provide both psychotherapy and psychiatric services. In addition, students can receive three free professional counseling sessions upon request through the [Counseling and Psychological Services](#) (CAPS). These sessions are not associated with student's insurance coverage. Students are encouraged to seek assistance for anxiety, depression, trauma/assault, adjustment to college life, interpersonal/relational difficulty, sexuality, family conflict, grief and loss, disordered eating and body image, alcohol and substance abuse, anger management, identity development and issues related to diversity, concerns associated with sexual orientation and spirituality concerns, as well as any other issue or concern. After hours, students may call UHS at (513) 556-2564 or CAPS Cares at (513) 556-0648. For urgent physician consultation after-hours students may call (513) 584-7777.

Title IX:

Title IX is a federal civil rights law that prohibits discrimination on the basis of a person's actual or perceived sex, gender, gender identity, gender expression, or sexual orientation. Title IX also addresses instances of sexual violence, dating or domestic violence, and stalking. If a student discloses a Title IX issue to me, I am required to forward that information to the Title IX Office. The Title IX Office will follow up with the student about how the University can take steps to address the impact on the student and the community. They will also inform the student of their rights and direct them to available resources. The priority is to make sure students are safe and successful here at the University of Cincinnati. Students are not required to talk to anyone in the Title IX Office. Students may also directly report any instances of sex or gender-based discrimination, harassment or violence to the Title IX office at (513) 556-3349. Students who wish to know more about their rights and resources on campus can consult the [Title IX website](#) or contact the Title IX office directly at (513) 556-3349.

[Reports may be filed](#) through the Title IX Office website.

Missed and/or late examinations, quizzes, and graded exercises:

Missing and/or late assignments and assessments are only permitted with 24-hour prior notice to the due date. If missing and/or late assignments become a chronic issue within the class, the instructors reserves the right to alter the policy on missing and/or late assignments and assessments, including penalties for missing and/or late assignments. The instructor also reserves the right to mark missing and/or late assignments or assessments as a “zero” at the time of grading.

LCB Weather Related and Emergency Protocol:

When inclement weather threatens the safety of the University of Cincinnati community, the Senior Vice President for Administration and Finance may invoke University Rule [3361: 10-55-01](#) and declare an emergency closing. There will be an announcement posted on Canvas and if possible, on the local news channels (TV and radio). Communications related to University closures will also be sent to the student’s cell phone number on record through the automatic University emergency text messaging system. Students should notify the University if they change their cell phone number to ensure they will receive these important emergency communications.

The Lindner College of Business will observe the university emergency closing protocol for all on-campus classes. During a university emergency closing, all college offices will be closed.

Students should clarify with their course instructors how the closure will affect assignments and deadlines, and whether class information from the missed session(s) will be posted on Canvas, and/or if the class will meet virtually during the closure.

In the event of inclement weather and the university is closed, the closure will not affect online courses. All course assignments and activities will remain as scheduled in the course syllabus.

Criteria for letter grades:

The instructor reserves the right to alter the grading policy with advance notice to students.

Grades are determined under the following weighting system:

Weighting:

Module Assignments	15%
Homework	20%
Assessments	20%
Midterm	20%
Final	25%

Grading Scale:

A	93-100
A-	90-92
B+	87-89
B	84-86
B-	80-83
C	70-79
D	60-69
F	< 60

Description of Major Assignments

Module Assignments: (15%)

- Students will complete a module-specific assignment as they progress through a given course module. These assignments include small code tasks at various stages to reinforce concepts introduced during the video lectures. The instructor will provide solutions to these assignments at the completion of the module. Collaboration with other students on module assignments are permitted. Module assignments are the **ONLY** graded content where collaboration is permitted.

Homework: (20%)

- Students will complete homework assignments after the completion of each course module. These assignments are more complex code tasks, completion of which will demonstrate mastery of a module. **Homework is an INDIVIDUAL effort! Any suspicion of collaboration will be result in an allegation of academic misconduct.**

Assessments: (20%)

- At the start of each weekly module, there will typically be a short assessment over material from the prior week's module. These assessments are meant to serve as a checkpoint for progress in the course, the student's understanding of material presented thus far, and possible areas where more instruction is needed. **Assessments are an INDIVIDUAL effort! Any suspicion of collaboration will be result in an allegation of academic misconduct.**

Midterm: (20%)

- The midterm will be given prior to the start of Module 4 and will be a written assessment. The midterm will be cumulative to that point in the course, covering all material from the first three modules. **The Midterm is an INDIVIDUAL effort! Any suspicion of collaboration will be result in an allegation of academic misconduct.**

Final: (25%)

- The final will be given after Module 6 and will be a set of complex coding tasks. The final will cover all material from the course. **The Final is an INDIVIDUAL effort! Any suspicion of collaboration will be result in an allegation of academic misconduct.**

X. Course Schedule:

Subject to Change

Module #: 10/12-12/2	Topic(s):	Assignments & Assessments	Due Dates
Module 1: 10/17	SQL Setup & Intro	Module 1 Assignment Module 1 Homework	10/24 1:00PM 10/24 1:00PM
Module 2: 10/24	Filter & Sort	Module 1 Assessment Module 2 Assignment Module 2 Homework	10/31 1:00PM 10/31 1:00PM
Module 3: 10/31	Aggregation	Module 2 Assessment Module 3 Assignment Module 3 Homework	11/07 1:00PM 11/07 1:00PM
Module 4: 11/07	Logic	Midterm Module 4 Assignment Module 4 Homework	11/14 1:00PM 11/14 1:00PM 11/14 1:00PM
Module 5: 11/14	Merging Data	Module 4 Assessment Module 5 Assignment Module 5 Homework	11/21 1:00PM 11/21 1:00PM
Module 6: 11/21	Misc. Topics	Module 5 Assessment Final	12/2 11:59PM