

Advanced Databases

CIS-279 30 O

Spring Term 2024-2025 School Year Section 30 O 3.00 Credits 01/13/2025 to 05/09/2025

Modified 01/13/2025

Course Description

This course will provide students the opportunity to work with Microsoft SQL Server. Large tables allows for the ability to make SQL queries more efficient. Students learn how to use SQL Server tool like Management Studio and Query Analyzer to effectively create and maintain databases. Reporting software will also be covered in the course. Prerequisite: CIS 194

Outcomes

Course Outcomes

Upon successful completion of this course, the student shall be able to

- Define and utilize database terminology effectively.
- Create queries using SQL.
- Utilize t-SQL statements in writing SQL.
- Write and use scripts to solve problems.
- Write stored procedures, functions, and triggers
- Describe database access standards.

Program Outcomes

Science and Technology

- Develop software applications to solve a business problem.
- Demonstrate proficiency in the design and use of databases.

Problem Solving/Critical Thinking

- Appraise the strengths and weaknesses of one's completed work.
- Analyze a client's software requirements in order to develop possible solutions.

Professionalism

- Utilize professional resources (i.e. professional organizations, media and IT websites).
- Use effective time management skills.

Communication

- Research and present an IT topic using appropriate terminology.
- Write programs with clarity, efficiency, and accuracy.

Additional Outcomes

Course Materials

Murach's SQL Server 2022 for Developers

Author: Bryan Syverson, Joel Murach

Publisher: Murach

ISBN: 9781943873067

Availability: Campus Bookstore

eBook also available (ISBN 9781943873098)

SQL Server 2022

SQL Server 2022

SQL Server Management Studio (SSMS)

Availability: STC VMware

The software will be on your STC laptop or available through VMware Horizon Client

Deliverables

Exams

Labs

Evaluation Procedures and Grading

A = 89.5 +

B = 79.5 to
89.49

C = 69.5 to
79.49

D = 59.5 to
69.49

F = 0 to 59.49

Additional Items

AI & Technology Assistance Policy

This class will have restricted use of software, apps, or other technology tools providing computer-assisted or artificial intelligence. Assignments allowing these tools will be clearly noted.

Do not use technology tools without instructor authorization.

This includes text generators, enhanced proofing tools, image creators, and math or science solution tools. Do not use a technology tool until you are certain your instructor approves. Keep copies of your prewriting, drafts, notes, and prototypes so you have a record of your original work.

Violations of the technology use policy will be considered cheating.

Course Outline
