

Collin College - Continuing Education

COURSE SYLLABUS

COURSE INFORMATION

Course Number: CPGM 6320

Course Title: Advanced SQL Programming

Course Description: Advanced techniques for transforming an experienced SQL programmer into an expert.

Suggested Course Prerequisite(s): SQL Programming Basics or equivalent experience

Course Resources: REQUIRED

SQL Queries for Mere Mortals: A Hands-On Guide to Data Manipulation in SQL (4th Edition)
by John L. Viescas; Addison-Wesley Professional, 978-0134858333

Student Learning Outcomes: Demonstrate advanced techniques and methods for database design and normalization, SQL data types, querying, grouping, set operations, optimization, data scaling, and encoding.

Certification Notes:

Next course recommendation:

Lesson Plan – by week or session:

Session 1 – General overview, data types and database normalization
Session 2 – SELECT statement elements, table joins & comparison predicates
Session 3 – Logical operators, date functions, and string functions
Session 4 – NULLs, expressions, views, derived tables & temporary tables
Session 5 – Math functions & aggregates with advanced groupings
Session 6 – Working with database metadata and cursors
Session 7 – Windowing functions, functions, and store procedures
Session 8 – SQL query performance tuning

Course Sessions:

Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Method of Evaluation:

Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

Refund Policy:

Please refer to www.collin.edu/ce/inforegistrar.html for our refund policy. No refunds after the start time of the first class.

Americans with Disabilities Act:

Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.