



CU217 – Advanced SQL Programming

- **Section 1: Introduction and Refresher**
 - SQL Tools
 - SQL Standards
 - Joining Tables
 - Stored Programs
- **Section 2: Intermediate SQL**
 - Predicates
 - Set and Subset Operations
 - Aggregate Functions
 - String Manipulation
 - Grouping and Sorting SQL
 - Grouping SQL with ColdFusion
 - Conditional Statements
- **Section 3: SQL Optimization**
 - Query Optimization Techniques
 - Design Techniques
 - Using Indexes
 - Using Views
 - Query Optimization with ColdFusion
- **Section 4: Advanced SQL**
 - Using Temp Tables
 - Advanced Queries
 - Advanced Searching
 - Temporal Queries (Dates and Times)
 - Hierarchical Queries
- **Section 5: Advanced SQL Continued**
 - Metadata Queries
 - Dynamic SQL (Using SQL to create SQL)
 - Cursors and Loops
 - Transaction Management
- **Section 6: Microsoft SQL Server Specific**
 - Transact SQL
 - System Tables
 - System Stored Procedures
 - Extended Stored Procedures
 - Importing and Exporting Large Data
- **Bonus Sections if Time Permits**
 - Undocumented SQL Server
 - Troubleshooting with SQL Server
 - Statistics: Cumulative Statistics
 - Statistics: Cross Tabulations

○