Course Outline:

SQL Programming Language Introduction (Course T925)

What is this course about?
SQL forms the cornerstone of all relational database operations. The ability to write the SQL language is essential for those who develop database applications. This course provides a solid foundation of the SQL programming language that enables you to build, query and manipulate databases. You compare the ANSI/ISO standard with the SQL implementations of both Oracle and SQL Server databases.

Who should attend?
Anyone who needs to learn SQL programming for developing applications using databases, or for extracting and analyzing database contents. No previous SQL experience is required.

Duration:
3 Days

This course qualifies for:
1.8 CEUs
17 NASBA CPEs

Chapter 1: SQL Fundamentals
- The Importance of SQL
- Database Fundamentals
- History and Evolution
- Course Environment

Chapter 2: Data Definition
- Data Types
- Creating Tables
- Modifying and Dropping Tables
- Constraints
- Indexes

Chapter 3: Data Modification
- INSERT, UPDATE, DELETE
- Transactions

Chapter 4: Single-Table SELECT Statements
- SELECT Statement Structure
- Columns and Expressions
- WHERE Filter Conditions
- ORDER BY to Specify Sorting
- NULL Values
- DISTINCT
Chapter 5: Joins
  • Inner Join
  • Outer Join
  • Cross Join
  • Self-Join

Chapter 6: Set Operators
  • Set Operators
  • Set Compatibility

Chapter 7: Row Functions
  • Row Function Fundamentals
  • Mathematical Functions
  • String Functions
  • Date and Time Functions
  • Data Type Conversion
  • CASE
  • NULL Functions

Chapter 8: Aggregate Functions
  • Aggregate Functions
  • GROUP BY
  • HAVING

Chapter 9: Subqueries
  • Subqueries
  • Correlated Subqueries
  • EXISTS

Chapter 10: Views
  • Inline Views
  • Stored Views

Chapter 11: Course Summary