Who should attend (Audience)

This course is designed for Business Intelligence Specialists, Database and Application Administrators and other IT Professionals who need to learn SQL programming for developing applications using databases, or for extracting and analyzing database contents. No previous SQL experience is required.

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.

Recommended prerequisites

- None

Previous knowledge & experience needed

- None

Duration

3 Days
8 AM-4 PM Central Daily

Course skill level

- Foundation
  - Intermediate
  - Advanced

This course qualifies for

- 1.8 CEUs
- 17 NASBA CPEs

Technology used during course

- AnyWare Classes use Zoom
- SkyTap Virtual Machines
- Computing Sandbox
Course Details

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
What is the Attendance Policy for IT Academy Classes?
IT Academy attendees are expected to adjust their work schedule to match the IT Academy class hours of 8:00am – 4:00pm. 100% attendance is expected in each IT Academy class. Missing time in class may result in the following:

- **No Show**= Employees who do not show up for class or arrive more than one (1) hour after the start of class will be advised to reschedule for the next available course.
- **Incomplete**= Employees missing a half day or more of class-any day of class-will be advised to reschedule for the next available course. Employees not available to sit for the post-test will be considered incomplete.

AnyWare Technical Support contact?
AnyWare@LearningTree.com, 1-877-653-8733

IT Academy Classroom Point of Contact?
Christopher Marsh, Christopher.marsh@tn.gov, 615-532-5517

How do I access the new My IT Academy Portal?
1. Log into Edison
2. ELM Learning Home Page
3. Quick Links
4. My IT Academy (last link under Quick Link)

For more FAQs visit the IT Academy AEM Site