



# Microsoft® SQL Server® 2008 Installing, Querying, and Security

**Instructor:** Don Kiely is a nationally recognized author, instructor and consultant who travels the country sharing his expertise in SQL Server and security. He is a featured speaker at SQL Server conferences and specializes in security as it relates to databases and application development.

**Total Learning Time:** 11-33 hours

Media run time is 11+ hours, total learning time could be up to 33 hours if the courseware, labs and exams are utilized. This course can also be used as quick reference material, with the ability to access just the information you need in a matter of minutes.

**Course Description:** In this course, you'll learn about the components that make up the comprehensive SQL Server 2008 product and the various editions that Microsoft makes available, so that you can select the right one. You'll learn about installation and upgrade issues, about some of the many configuration choices available to customize it to your needs and environment, as well as how to tweak it after installation. Then you'll learn how to work with database objects and data, using Management Studio and other tools, as well as Transact SQL (T-SQL), the programming language of SQL server. You'll learn about the features in T-SQL for querying, inserting, updating, and deleting data, as well as the rich support in T-SQL for various data-based operations. The course finishes up with a comprehensive look at security, both to help you secure your server and data from unauthorized use as well as to avoid security hurdles as you administer and develop applications that use the server and its data.

## Course Outline:

### A Tour of SQL Server 2008

- SQL Server 2008 Editions, Components, and Tools
- Using SQL Server Management Studio (SSMS)
- Working with Tables, Queries, Views
- Business Intelligence Services

### Installing SQL Server 2008

- Preparing for Installation
- Upgrading an Earlier Version
- Installation Steps
- Configuring the Server

### Designing and Creating a Database

- Relational Database Design Principles
- Implementing the Design
- Create a SQL Server Database
- Create SQL Server Tables
- Creating Relationships Using a Database Diagram

### Data Selection

- Understanding Transact-SQL
- The SELECT Statement
- The WHERE Clause
- Using ORDER BY to Sort Data
- The GROUP BY Clause
- Joining Tables

### Modifying Data

- Modifying Data with Transact-SQL
- Inserting Data
- Updating Data
- Understanding Transaction Isolation

### Working with SQL Server Management Studio

- Getting Started with Management Studio
- Exploring the Object Explorer
- Working with the Query Editor
- Using SQL Server Books Online

### Transact-SQL Programming

- Overview of Transact-SQL
- Using Built-In Functions
- Using Control of Flow Constructs

### Understanding and Implementing Security

- Security Overview
- Authentication
- Authorization
- Data Encryption
- Security Epilog

Number of Modules	Media Run Time	Total Learning Time	Printable PDF Courseware	Hands-on Labs	Sample Code	Pre/Post Exams	Supports Microsoft Exam Number
10 Modules	11+ hours	11-33 hours	450+ Pages	Yes	Yes	Yes	N/A

\* Professionally printed, bound courseware (student manuals) are available. Ask for details.