



## SQL Server Query Writing Essentials

The goal of this course is to provide participants with the technical skills and knowledge to write Transact-SQL statements for Microsoft SQL Server. Upon completion, participants will be able to retrieve and modify data from SQL Server and understand how to perform these operations whilst maximising query performance.

This course is designed for all versions of SQL Server

### Who Should Attend:

This course is designed for individuals who are looking to gain an understanding of how to write T-SQL queries.

### Course Prerequisites:

Before attending this course, participants should have:

- A basic understanding of database concepts

### Course Objectives:

After completing this course, participants will be able to:

- Write SQL Server T-SQL queries to retrieve data
- Understand the performance impact of queries
- Develop queries to be used in reporting solutions
- Update and Insert data into tables

Course Code: **SSQWE**  
Course Duration: **1 Day**

### Course Summary

**Module 1:** SQL Server and T-SQL Overview

**Module 2:** Introduction to SQL Server Management Studio

**Module 3:** Retrieving Information From a Table

**Module 4:** Grouping and Totaling the Returned Rows

**Module 5:** Getting Information From More Than One Table

**Module 6:** Using the Results of Queries in Other Queries

**Module 7:** Modifying Values in a Table

**Microsoft Partner**

Gold Data Analytics  
Gold Data Platform  
Silver Learning

[www.wardyit.com](http://www.wardyit.com)

[contact@wardyit.com](mailto:contact@wardyit.com)

Call **1300 927 394** to register for this course today as places are strictly limited.



## Course Outline

### Module 1: SQL Server and T-SQL Overview

- T-SQL Background
- Microsoft SQL Server
- Key Tools
- Basic SQL Server Concepts
- Connecting to SQL Server
- Categories of T-SQL Statements
- Books Online

### Module 2: Introduction to SQL Server Management Studio

- Introduction to the SQL Server Tools
- T-SQL Scripts
- Getting Context-sensitive Help While Coding
- Adding Comments
- Color-coded Syntax
- Object Browser
- Loading and Saving Scripts
- Parsing Scripts

### Module 3: Retrieving Information From a Table

- Basic ANSI Database Terminology
- SELECT Statement
- Asterisk Operator
- Column and Row Order
- Common Datatypes
- Selecting Particular Rows
- IN operator
- NULL
- Column Aliases
- DISTINCT Keyword

### Module 4: Grouping and Totaling the Returned Rows

- Basic Aggregate Functions
- Aggregate Groups
- Permitted Columns in SELECT Lists
- The HAVING Clause
- Aggregates and NULL Values
- The COALESCE Operator
- The COUNT Aggregate
- The TOP Modifier

### Module 5: Getting Information From More Than One Table

- Further ANSI Database Terms
- INNER JOIN
- LEFT OUTER JOIN
- RIGHT OUTER JOIN
- FULL OUTER JOIN
- CROSS JOIN
- Joining More Than Two Tables
- Joining a Table to Itself

### Module 6: Using the Results of Queries in Other Queries

- Joining More Than Two Tables
- Joining a Table to Itself Sub-Queries
- FROM Sub-Query
- Scalar Sub-Queries
- IN Sub-Query
- Nested vs Correlated Sub-Queries
- EXISTS Sub-Queries
- UNION Operator

### Module 7: Modifying Values in a Table

- INSERT Statement
- UPDATE Statement
- DELETE statement
- TRUNCATE TABLE Statement
- SELECT...INTO Statement