

SQL Server 2014, Part 8 of 9: T-SQL Select, Where, and Clauses

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Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This course assumes that you have at least a basic familiarity with the concept of relational databases and a basic understanding of what SQL Server is and the high-level tools in it, as well as how to create and manage objects using Management Studio. You should also have a basic understanding of how SQL Server implements security, including its authentication and authorization schemes, and how to assign permissions on securable objects to principals. You should have viewed SQL Server 2014: Introduction to T-SQL before viewing this course.

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Course description: In this course you'll learn about the SELECT statement and its incredible flexibility when retrieving data from one or more database tables. You can shape the data you retrieve, and filter it using the WHERE clause. SQL Server rarely returns data in the order you want, so you can use the ORDER BY clause to sort it. Next you'll learn some advanced ways to select data. With the GROUP BY clause, you can summarize the information in one or more tables, aggregating it various ways, if you wish. You'll also learn how you can join the data together from multiple tables, efficiently including related data in the result sets.

Course outline:

Data Selection with SELECT

- Introduction
- Transact-SQL Data Selection
- Schemas and Naming in SQL
- The SELECT Statement
- Demo: The SELECT Statement
- Semicolon vs. GO
- Demo: The Asterisk Symbol
- Demo: Concatenation
- Demo: Aliases
- Demo: Distinct
- Summary

- Demo: ORDERBY
- Demo: GROUPBY and Aggregates
- Demo: Count
- Demo: GROUPBY
- Demo: ORDERBY with GROUPBY
- Demo: HAVING Clause
- Demo: Top Clause
- Demo: Top, Ties and PERCENT
- Summary

- Demo: Right Outer Join
- Demo: Full Outer Join
- Demo: Combining Joins
- Demo: Two Left Joins
- Self Joins
- Demo: Self Joins
- Summary

The WHERE Clause

- Introduction
- Demo: The WHERE Clause
- Comparison Operators
- Demo: LIKE and Wildcards
- Demo: BETWEEN Operator
- Demo: Test for Null
- Three-Valued Logic: Nulls
- Demo: AND, OR, NOT Operators
- Demo: Operator Precedence
- Demo: Overriding Precedence
- Demo: IN Operator
- Summary

Joining Tables

- Introduction
- Demo: Cross Join
- Demo: How Joins Work
- Demo: Joins with WHERE Clause
- Join Notation
- Demo: JOIN Clause
- Demo: Alias Tip
- Inner Joins
- Demo: INNER JOIN
- Demo: Multiple Table Joins
- Demo: Joins and Aggregates
- Summary

GROUPBY and ORDERBY

- Introduction

Outer and Self Joins

- Introduction
- Demo: Outer Joins
- Demo: Left Outer Join