

Microsoft SQL Server 2019 - Querying SQL

Structured technical training and certification preparation

A practical, student-friendly outline covering query Tools, introduction to T-SQL Querying, basic SELECT Queries, querying Multiple Tables, and sorting and Filter...

MODULES

16

LESSONS

67

FORMAT

Self-paced

Module Breakdown

<p>MODULE 1</p> <p>Query Tools</p> <ul style="list-style-type: none"> 1.1 Course Introduction 1.2 Module 1 Introduction 1.3 Intro to Management Studio 1.4 Intro to command-line query tools 	<p>MODULE 2</p> <p>Introduction to T-SQL Querying</p> <ul style="list-style-type: none"> 2.1 Module 2 Introduction 2.2 Introducing T-SQL 2.3 Understanding Sets 2.4 Understanding the Logical Order of Operations in SELECT statements
<p>MODULE 3</p> <p>Basic SELECT Queries</p> <ul style="list-style-type: none"> 3.1 Module 3 Introduction 3.2 Writing Simple SELECT Statements 3.3 Eliminate Duplicates with DISTINCT 3.4 Using Column and Table Aliases 3.5 Write Simple CASE Expressions 	<p>MODULE 4</p> <p>Querying Multiple Tables</p> <ul style="list-style-type: none"> 4.1 Module 4 Introduction 4.2 Understanding Joins 4.3 Querying with Inner Joins 4.4 Querying with Outer Joins 4.5 Querying with Cross Joins and Self Joins
<p>MODULE 5</p> <p>Sorting and Filtering Data</p> <ul style="list-style-type: none"> 5.1 Module 5 Introduction 5.2 Sorting Data 5.3 Filtering Data with Predicates 5.4 Filtering with the TOP and OFFSET-FETCH 5.5 Working with Unknown Values 	<p>MODULE 6</p> <p>Working with SQL Server Data Types</p> <ul style="list-style-type: none"> 6.1 Module 6 Introduction 6.2 Writing Queries that return Date and Time Data 6.3 Writing Queries that use Date and Time Functions 6.4 Writing Queries that return Character Data 6.5 Writing Queries that use Character Functions

Module Breakdown (continued)

<p>MODULE 7</p> <p>Using DML to Modify Data</p> <ul style="list-style-type: none"> 7.1 Module 7 Introduction 7.2 Inserting Records with DML 7.3 Updating Records Using DML 7.4 Deleting Records Using DML 	<p>MODULE 8</p> <p>Using Built-In Functions</p> <ul style="list-style-type: none"> 8.1 Module 8 Introduction 8.2 Writing Queries with Built-In Functions 8.3 Using Conversion Functions 8.4 Using Logical Functions 8.5 Using Functions to Work with NULL
<p>MODULE 9</p> <p>Grouping and Aggregating Data</p> <ul style="list-style-type: none"> 9.1 Module 9 Introduction 9.2 Using Aggregate Functions 9.3 Using the GROUP BY Clause 9.4 Filtering Groups with HAVING 	<p>MODULE 10</p> <p>Using Subqueries</p> <ul style="list-style-type: none"> 10.1 Module 10 Introduction 10.2 Writing Self-Contained Subqueries 10.3 Writing Correlated Subqueries 10.4 Using the EXISTS Predicate with Subqueries
<p>MODULE 11</p> <p>Using Table Expressions</p> <ul style="list-style-type: none"> 11.1 Module 11 Introduction 11.2 Using Views 11.3 Using Inline Table-Valued Functions 11.4 Using Derived Tables 11.5 Using Common Table Expressions 	<p>MODULE 12</p> <p>Using Set Operators</p> <ul style="list-style-type: none"> 12.1 Module 12 Introduction 12.2 Writing Queries with the UNION operator 12.3 Using EXCEPT and INTERSECT 12.4 Using APPLY
<p>MODULE 13</p> <p>Using Window Ranking, Offset, and Aggregate Functions</p> <ul style="list-style-type: none"> 13.1 Module 13 Introduction 13.2 Creating Windows with OVER 13.3 Exploring Window Functions 	<p>MODULE 14</p> <p>Pivoting and Grouping Sets</p> <ul style="list-style-type: none"> 14.1 Module 14 Introduction 14.2 Writing Queries with PIVOT and UNPIVOT 14.3 Working with Grouping Sets
<p>MODULE 15</p> <p>Implementing Error Handling</p> <ul style="list-style-type: none"> 15.1 Module Introduction 15.2 Implementing T-SQL error handling 15.3 Implementing structured exception handling 	<p>MODULE 16</p> <p>Managing Transactions</p> <ul style="list-style-type: none"> 16.1 Module 16 Introduction 16.2 Transactions and the Database Engine 16.3 Controlling Transactions 16.4 Course Wrap Up