



HEROTEC
NETWORK PROFESSIONAL TRAINING

Course 20-461 C: Querying Microsoft SQL Server

Related Certificate	MCSE SQL Server 2012
Course ID	Course 20-461 C: Querying Microsoft SQL Server
Related Exams	70-461
Audience	IT Professional
Hours	40

Overview:

This 5-day instructor led course provides students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server 2014. This course is the foundation for all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence.

Objectives:

- Describe the basic architecture and concepts of Microsoft SQL Server 2014.
- Understand the similarities and differences between Transact-SQL and other computer languages.
- Write SELECT queries
- Query multiple tables
- Sort and filter data
- Describe the use of data types in SQL Server
- Modify data using Transact-SQL
- Use built-in functions
- Group and aggregate data
- Use subqueries
- Use table expressions
- Use set operators
- Use window ranking, offset and aggregate functions
- Implement pivoting and grouping sets
- Execute stored procedures
- Program with T-SQL
- Implement error handling
- Implement transactions

Outlines:

- Module 1: Introduction to Microsoft SQL Server 2014
- Module 2: Introduction to T-SQL Querying
- Module 3: Writing SELECT Queries
- Module 4: Querying Multiple Tables
- Module 5: Sorting and Filtering Data
- Module 6: Working with SQL Server 2014 Data Types
- Module 7: Using DML to Modify Data
- Module 8: Using Built-In Functions
- Module 9: Grouping and Aggregating Data
- Module 10: Using Subqueries
- Module 11: Using Table Expressions
- Module 12: Using Set Operators
- Module 13: Using Window Ranking, Offset, and Aggregate Functions
- Module 14: Pivoting and Grouping Sets
- Module 15: Executing Stored Procedures
- Module 16: Programming with T-SQL
- Module 17: Implementing Error Handling
- Module 18: Implementing Transactions
- Module 19: Improving Query Performance
- Module 20: Querying SQL Server Metadata

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