

Course 501

Microsoft SQL Server 2005: Writing Transact-SQL Queries

(4-5 days)

Course Description...

This course will provide hands-on instruction on writing queries using Transact-SQL to beginning and intermediate users. This course is particularly valuable for data analysts requiring the skills to write queries to build reports or analyze data. The course will start with basic steps in querying and finish with more advanced topics including XML queries and Common Table Expressions (CTE). Students will learn the details and capabilities of subqueries and ranking functions, aggregating and pivoting data, TOP, and APPLY.

Learning Objectives...

- Executing Single-Table Queries
- Executing and manipulating Multi-table Joins
- Understanding Simple and Correlated Subqueries
- Modifying data through linked servers
- Implementing Aggregation Functions
- Configuring and executing Distributed Queries
- Executing XML Queries

Who should attend...

This course is for all those who need to write reports and access data using TSQL in Microsoft SQL Server.

Suggested Prerequisites...

Introduction to Microsoft SQL Server 2005

See next page for a detailed course outline...



Course Outline...

Chapter 1: Data Retrieval

- Select Statements
- Filters
- Handling Null Values
- Extended Top Function
- Ranking
- Grouping Data
- Sorting Data

Chapter 2: Joins and Unions

- Multiple Table Data Access
- Inner Joins
- Outer Joins
- Cross Joins
- Self Joins
- Unions

Chapter 3: Functions

- Date functions and Manipulation
- Arithmetic Functions
- String functions
- Case Statements

Chapter 4: Aggregate functions

- Summary Functions
- Advanced Grouping
- Having Clause
- Sliding Aggregates

Chapter 5: Distributed Queries

- Querying Across Databases
- Remote Server Access
- Dynamic Linking

Chapter 6: Querying XML Data

- XML and XQuery

Chapter 7: Subqueries

- Nested Queries
- Correlated Subqueries
- Exists/Not Exists
- Derived Tables
- Common Table Expressions (CTE)

Please contact your ROI representative to discuss course tailoring!!!