



## **MS SQL Server 2005 5 days**

### Description

This course provides an introduction to using Microsoft's Transact-SQL to retrieve and manipulate data in an MS SQL Server 2005 database. The course begins with basic relational database terms and concepts. It includes writing SQL statements for creating and altering tables and views as well as adding, changing, or deleting data in tables and views. The creation and manipulation of objects, stored procedures, and triggers is also covered. Administrative functions for MS SQL Server 2005 are not covered, except incidentally.

Hands-on exercises are used to reinforce the concepts taught and to provide experience with the syntax and structure of SQL.

### Audience

Developers, analysts, DBAs or any others who need to use SQL statements to manipulate a MS SQL Server 2005 database.

### Prerequisites

No previous experience with SQL or any relational database is required for this course. Students must be familiar with basic computer terms and operations, and with a Windows environment.

### Course Topics

#### Module 1 - Relational Databases and Transact SQL

- Relational Databases
- Basic relational database terms
- Transact-SQL

#### Module 2 - Basic SQL Selects

- Query Analyzer
- Structure of a table
- SQL SELECT
- Sources of help



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### Module 3 - Sorting, Filtering, and Joining

- Filtering output
- Logical operators
- Sorting
- Joining tables

### Module 4 - Functions, Aggregation, Subqueries

- Built-in functions
- Group aggregate functions and the GROUP BY clause
- HAVING clause with GROUP BY
- Single-row and multiple-row subqueries

### Module 5 - Insert, Delete, Update, Transactions

- DML and constraints
- Inserting rows into a table
- Updating rows in a table
- Deleting rows from a table
- Controlling transactions

### Module 6 - Manipulating Objects

- Basic object types available in MS SQL Server 2005
- Creating, using, and dropping views
- Inserting using identity columns
- The purpose and use of indexes

### Module 7 - Stored Procedures and Triggers

- Stored Procedures and Triggers
- Using stored procedures
- Effects of trigger

### Module 8 - Additional Topics

- SQL and MS SQL Server 2005 topics that are available for advanced study

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