

SQL SERVER DEVELOPMENT ONLINE TRAINING

COURSE CONTENT

Course Content

A TOUR OF SQL SERVER 2008

- SQL Server 2008 Editions, Components, and Tools
- Using SQL Server Management Studio (SSMS)
- Working with Tables and Queries
- New Transact-SQL Features
- Business Intelligence Services

INSTALLING SQL SERVER 2008

- Preparing for Installation
- Upgrading an Earlier Version
- Installation Steps
- Configuring the Server

DESIGNING AND CREATING A DATABASE

- Relational Database Design Principles
- Implementing the Design

DATA SELECTION QUERIES

- Understanding Transact-SQL

- The SELECT Statement
- The WHERE Clause
- Using ORDER BY to Sort Data
- The GROUP BY Clause
- Joining Tables

MODIFYING DATA

- Modifying Data
- Inserting Data
- Updating Data
- Deleting Data
- Understanding Transaction Isolation

WORKING WITH SQL SERVER MANAGEMENT STUDIO

- Getting Started with SSMS
- Exploring the Object Explorer
- Working with the Query Editor

TRANSACT-SQL PROGRAMMING

- Overview of Transact-SQL
- Using Built-In Functions
- Controlling Flow
- Ranking Results

TRANSACTIONS AND ERROR HANDLING

- Transaction Concepts

- Using TRY/CATCH Error Handling

CREATING VIEWS, STORED PROCEDURES, CURSORS AND TRIGGERS

- What Is a View?
- Creating Views
- Creating Stored Procedures
- Creating Cursors
- Creating Triggers

CREATING USER-DEFINED FUNCTIONS

- User-Defined Function Overview
- Scalar Functions
- Inline Table-Valued Functions
- Multi-Statement Table-Valued Functions
- Using Functions, Views, and Stored Procedures

ADVANCED QUERY TECHNIQUES

- Generating XML with FOR XML
- Using APPLY
- Creating Recursive Queries
- Creating Pivot Queries
- Executing Dynamic SQL

UNDERSTANDING AND IMPLEMENTING SECURITY

- Security Overview
- Authentication

- Authorization
- Permissions

ANALYZING AND TUNING PERFORMANCE

- Evaluating Performance
- Monitoring with SQL Server Profiler
- Tuning Queries
- Indexes