

## MICROSOFT SQL SERVER 2000 - LEVEL 3

### Course Description

SQL Server 2000 includes a rich set of tools that go beyond the basics of querying and manipulating data. Microsoft added many very useful capabilities in SQL Server that most developers never discover. Learn about the advanced features available to you for maintaining, analyzing, searching and distributing your data. Integrate your data safely with Internet and cross-platform applications.

Course Length: 2 Days

Course Tuition: \$500 (US)

### Prerequisites

Introduction to Microsoft SQL Server 2000 - Level 2.

### Course Outline

- Using System Objects
  - Exploring System Objects
  - Using System Functions
  - Using Information Schema Views
  - Using System Stored Procedures
  - How to Find What You're Looking For
  - Extended Stored Procedures
  - DBCC
    - Using DBCC CHECKDB
    - Locating DBCC Commands
    - Does a Table Exist?
    - Using Extended Stored Procedures
- Automating Administration with SQL Agent
  - Configuring SQL Server Agent
  - Setting SQL Server Agent Properties
  - Operators
  - Jobs
  - Alerts
  - Create an Operator
- Full Text Search
  - What Is Full-Text Search?
  - The Microsoft Search Service
  - Configuring Full-Text Search
  - The Full-Text Indexing Wizard
  - Writing Full-Text Queries
  - The CONTAINS Predicate
  - The FREETEXT Predicate
  - Combining Full-Text and Transact-SQL Predicates
  - Using the CONTAINSTABLE Function
  - Using the FREETEXTTABLE Function
  - Using Full-Text Search with Documents Stored in SQL Server
  - Preparing a Table to Store Documents
  - Loading Documents
  - Adding Full-Text Indexing
  - Searching for Text in the Documents
  - Configure Full-Text Indexing
  - Write Queries Using Full-Text Syntax

Create a Job	• Analysis Services
Create an Alert	Understanding Analysis Services
• Data Transformation Services (DTS)	Cubes, Dimensions, and Measures
What Is DTS?	MOLAP, ROLAP, and HOLAP
When to Use DTS	Partitions and Virtual Cubes
The DTS Import/Export Wizard	Building a Simple Cube
Using the DTS Import/Export Wizard	Using the Cube Wizard
Saving and Scheduling a DTS Package	Using the Dimension Wizard
DTS Packages	Creating Time Dimensions
The DTS Designer	Using the Cube Editor
DTS Package Components	Configuring Data Storage Options
Connection Objects	Browsing Data from a Cube
The Transform Data Task	The Cube Browser
Other Built-In Tasks	Exploring MDX
Controlling DTS Workflow	MDX Syntax
Precedent Constraints	Testing MDX Queries
DTS Transactions	Data Mining
Error Handling	Creating a Data-Mining Model
Custom ActiveX Scripts	Browsing a Data-Mining Model
Setting Up a Transformation Task	Build the Location Cube
Adding an ActiveX Scripting Task	Use Cube Browser to Answer Questions about the Data
• Replication	• English Query
What Is Replication?	Overview of English Query
How Replication Works	Before You Start-Preparing Your Database
Replication Terminology	Creating an English Query Application
Replication Topologies	The English Query Model Editor
Replication Pre-Requisites	Deploying an English Query Application
Replication Components	Compile the Application
Replication Methods	Deploying an English Query Application to the Web
Snapshot Replication	Using the Deploy to Web Wizard
Transactional Replication	Create an English Query Application
Merge Replication	
Why Bi-Directional Replication Is Bad	
Transformable Subscriptions	
Determining the Best Replication Scenario	
Implementing Replication	
Configuring Your SQL Server for Replication	
Create a Publication	
Pushing a Subscription	
Configuring Replication	
Creating Publications and Subscriptions	
• Publish SQL Server Data to the Web	
Publishing Data to the Web	
Overview	

The Web Assistant Wizard  
Publishing Data  
Viewing the Output  
Editing a Web Job Using Its Stored  
Procedure  
Web Jobs and Triggers  
The SQL Server Web Stored Procedures  
sp\_makewebtask  
sp\_runwebtask  
sp\_dropwebtask  
Scheduling Web Jobs  
Create a Web Job  
Edit a Web Job  
• XML Features-part I  
XML Fundamentals  
Why Do You Need XML?  
A Context Example  
How XML Compares to HTML  
XML Document Structure  
Validating XML Data with Schemas  
Using XSLT to Transform XML Data  
Generating XML from SQL Queries  
with FOR XML  
Using AUTO Mode  
Using RAW Mode  
Generating an XML Schema  
Using FOR XML EXPLICIT  
What's Different about EXPLICIT  
Mode?  
Constructing the UNION Query  
Special Column Aliases  
Is There More?  
Setting Up IIS for SQL Server  
What Is an IIS Virtual Directory?  
Creating a Virtual Directory  
Configuring the Virtual Directory  
Accessing SQL Server Using a URL  
URL Queries  
Template Queries  
Set Up an IIS Virtual Directory  
Test IIS Access  
Use FOR XML EXPLICIT and  
OpenXML  
• XML Features-part II  
Creating XML Views with Annotated  
Schemas

A Practical Example  
Annotating a Schema  
Using Template XPath Queries with  
Annotated Schemas  
Using URL XPath Queries with  
Annotated Schemas  
Using XPath to Retrieve SQL Server  
Data Directly  
Using OpenXML to Work with XML  
Documents in Transact-SQL  
Getting Started with OpenXML  
Inserting Data from XML into SQL  
Server with OpenXML  
Using Updategrams  
What Is an Updategram?