

Course Outline

2542 – Advanced Data Access with Microsoft Visual Studio 2005



Duration: 2 days (12 hours)

Learning Objectives:

- Minimize and handle database operation conflicts
- Handle large objects
- Enhance database performance
- Create managed code objects for SQL Server 2005
- Query XML by using XPath
- Transform XML by using XSLT style sheets

Target Audience:

This workshop is intended for corporate and Independent Software Vendor (ISV) application developers who have a desire to learn more about specific technology areas in distributed application development

Prerequisites:

- Have attended or studied Workshop 2541, Core Data Access with Microsoft Visual Studio 2005, or possess equivalent knowledge and skills
- Know how to use delegates
- Be able to use database stored procedures, triggers, and aggregates
- Be able to explain XPath concepts and basic syntax
- Be able to explain XSLT style sheet concepts

Topics Covered:

- Minimizing and Handling Database Operation Conflicts
 - Why Do Data Conflicts Arise?
 - Isolation Levels Available in SQL Server 2005
 - Guidelines for Using SQL Server 2005 Isolation Levels
- Handling Large objects
 - What Are Binary Large Objects and Character Large Objects?
 - The Process for Reading Large Objects from a Database
 - The Process for Writing Large Objects to a Database
- Enhancing Database Performance
 - ADO.NET Enhancements in the .NET Framework 2.0
 - SQL Server Provider Statistics
- Creating Managed Code Objects for SQL Server 2005
 - The Benefits of Creating Managed Code Objects
 - Demonstration: The Process for Importing an Existing Assembly into SQL Server 2005
 - Demonstration: The Process for Implementing Managed Code Objects in SQL Server 2005

- Querying XML by using XPath
 - The XPath Data Model
 - The Process for Selecting and Editing XML Data by Using XPathNavigator
 - The Process for Evaluating XPath Expressions by Using XPathNavigator
- Transforming XML by using XSLT Style Sheets
 - What Is XSLT?
 - The Process for Executing an XSLT Style Sheet
 - What Are Extension Objects?