

2734 - Updating Your Database Development Skills to Microsoft SQL Server 2005

Course Outline

Module 1: SQL Server 2005 Overview

The information in this module introduces the main new features and enhancements in SQL Server 2005 and describes the new development tools.

Lessons

- SQL Server 2005 Components and Architecture
- SQL Server Developer Tools
- SQL Server 2005 Security Implementation

Lab 1: Exploring SQL Server 2005

- Using SQL Server Management Studio
- Using Schemas

Module 2: Transact-SQL Enhancements in SQL Server 2005

In this module, students learn about the improvements in Transact-SQL in SQL Server 2005.

Lessons

- Data Definition Language Enhancements
- Data Manipulation Language Enhancements
- Structured Exception Handling

Lab 2: Programming with Transact-SQL

- Partitioning a Table
- Using Common Table Expressions
- Using Relational Operators

Module 3: Using XML in SQL Server 2005

In this module, students learn about the XML-related functionality in the SQL Server 2005 database engine will be described.

Lessons

- XML Enhancements in SQL Server 2005
- The xml Data Type
- Using XQuery

Lab 3: Working with XML

- Retrieving XML from Relational Data
- Storing XML Natively in the Databases
- Using XQuery with xml Methods

Module 4: Using Service Broker

The information in this module introduces Microsoft SQL Server 2005 Service Broker—a message-based platform for building service-oriented database solutions.

Lessons

- Service Broker Architecture
- Using the Service Broker

Lab 4: Using Service Broker

- Creating Service Broker Objects
- Implementing the Customer Service
- Implementing the E-mail Service

Module 5: Using Native HTTP Support

In this module, students learn how to create HTTP endpoints that make database services available to Web services clients.

Lessons

- Native HTTP Support in SQL Server 2005
- Configuring Native HTTP Support

Lab 5: Implementing a Web Service with HTTP Endpoints

- Create an HTTP Endpoint
- Test the HTTP Endpoint
- Secure the HTTP Endpoint

Module 6: Using Notification Services

The information in this module introduces Notification Services and how to develop Notification Services applications.

Lessons

- Notification Services Architecture
- Building Notification Services Solutions

Lab 6: Using Notification Services

- Creating a Notification Services Application
- Creating a Subscription Management Application
- Creating an Event Provider

Module 7: Using the .NET CLR in SQL Server 2005

In this module, students learn how to implement managed code in a SQL Server 2005 database.

Lessons

- SQL Server and the .NET CLR
- Implementing Managed Code in SQL Server 2005

Lab 7: Implementing Managed Code in the Database

- Creating a Managed Stored Procedure
- Creating a Managed Function
- Creating a Managed User-Defined Type

Module 8: Developing Client Applications

The information in this module introduces database developers to client application development techniques that use the data access classes provided in the .NET Framework.

Lessons

- Developing Client Applications with ADO.NET
- Data Binding in the .NET Framework 2.0

Lab 8: Developing Client Applications

- Creating a Data Bound Windows Application
- Creating a Data bound ASP.NET Application

Module 9: Using SQL Management Objects

The information in this module introduces the SQL Management Objects (SMO) Application Programming Interface (API) in Microsoft SQL Server 2005, which provides classes that you can use to manage SQL Server. SQL Server 2005 also introduces Replication Management Objects (RMO) to allow automation of replication.

Lessons

- Introduction to SQL Management Objects
- Replication Management Objects

Lab 9: Using SQL Management Objects

- Using SMO to Retrieve Server Information
- Using SMO to Create Database Objects
- Using SMO to Modify Database Objects