

MS 2780B Maintaining a Microsoft SQL Server 2005 Database

Description: This five-day instructor-led course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2005 database. The course focuses on teaching individuals how to use SQL Server 2005 product features and tools related to maintaining a database.

Days: 5

Prerequisites: Before attending this course, students must have:

Basic knowledge of the Microsoft Windows operating system and its core functionality.

Working knowledge of Transact-SQL.

Working knowledge of relational databases.

Some experience with database design.

In addition, it is recommended, but not required, that students have completed:

- Course 2778: Writing Queries Using Microsoft SQL Server 2005 Transact-SQL.
- Course 2779: Implementing a Microsoft SQL Server 2005 Database.

Audience: This course is intended for IT Professionals who want to become skilled on SQL Server 2005 product features and technologies for maintaining a database.

Module 1: Installing and Configuring SQL Server 2005

This module explains how to plan for and install SQL Server 2005, how to manage a SQL Server 2005 installation, and how to use the SQL Server 2005 administrative tools.

Lessons

- Preparing to Install SQL Server
- Installing SQL Server 2005
- Managing a SQL Server 2005 Installation

Lab 1: Installing and Configuring SQL Server 2005

Module 2: Managing Databases and Files

This module explains how to manage databases and files.

Lessons

- Planning Databases
- Creating Databases
- Managing Databases

Lab 2: Managing Databases and Files

Module 3: Disaster Recovery

This module explains how to plan and implement a backup and restore strategy.

Lessons

- Planning a Backup Strategy
- Backing Up User Databases
- Restoring User Databases
- Performing Online Restore Operations
- Recovering Data from Database Snapshots
- System Database and Disaster Recovery

Lab 3: Disaster Recovery

Module 4: Managing Security

This module explains how to manage principals, securables, and permissions, and how to implement cryptography in a SQL Server database.

Lessons

- Overview of SQL Server Security
- Protecting the Server Scope
- Protecting the Database Scope
- Managing Keys and Certificates in SQL Server

Lab 4: Managing Security

Module 5: Monitoring SQL Server

This module explains how to monitor SQL Server performance and activity.

Lessons

- Viewing Current Activity
- Using System Monitor
- Using SQL Server Profiler
- Using DDL Triggers
- Using Event Notifications

Lab 5: Monitoring SQL Server

Module 6: Transferring Data

This module explains how to transfer and transform data.

Lessons

- Overview of Data Transfer
- Introduction to SQL Server Integration Services
- Using SQL Server Integration Services
- Features of SQL Server Integration Services

Lab 6: Transferring Data

Module 7: Automating Administrative Tasks

This module explains how to use the SQL Server Agent to automate administrative tasks.

Lessons

- Automating Administrative Tasks in SQL Server 2005
- Configuring the SQL Server Agent
- Creating Jobs and Operators
- Creating Alerts
- Managing Multiple Servers
- Managing SQL Server Agent Security

Lab 7: Automating Administrative Tasks

Module 8: Implementing Replication

This module explains the purpose of replication, introduces the concepts underpinning replication, and describes how to implement replication in several common scenarios.

Lessons

- Overview of Replication
- Implementing Replication
- Configuring Replication in Some Common Scenarios

Lab 8: Implementing Replication

Module 9: Maintaining High Availability

This module explains how to implement high availability technologies with SQL Server 2005.

Lessons

- Introduction to High Availability
- Implementing Server Clustering
- Implementing Database Mirroring
- Implementing Log Shipping
- Implementing Peer-to-Peer Replication

Lab 9: Maintaining High Availability

Upcoming Classes

Jun 11, 2012 - Jun 15, 2012