

Data of course

Course Number: 2780

Title course: Maintaining a Microsoft SQL Server 2005 Database

Duration: 25 hours

Description

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

This three-day instructor-led course provides students with product knowledge and skills needed 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.

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*.

Course Objectives

At the end of this course, the student will be able to:

- Install and configure SQL Server 2005.
- Manage database files.
- Manage security.
- Perform administrative tasks.
- Back up databases.
- Restore databases.
- Monitor SQL Server.
- Troubleshoot SQL Server.
- Transfer data.
- Maintain high availability.

Contents

Module 1: Installing and Configuring SQL Server 2005

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

Module 2: Managing Databases and Files

- Planning Databases
- Creating Databases
- Managing Databases

Module 3: Disaster Recovery

- 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

Module 4: Managing Security

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

Module 5: Monitoring SQL Server

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

Module 6: Transferring Data

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

Module 7: Automating Administrative Tasks

- 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

Module 8: Implementing Replication

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

Module 9: Maintaining High Availability

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