
Duration: 5 days

Overview

This five-day instructor-led course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2008 database. The course focuses on teaching individuals how to use SQL Server 2008 product features and tools related to maintaining a database.

This course is intended for IT Professionals who administer and maintain SQL Server databases.

Prerequisites

Before attending this course, students must have:

- Basic knowledge of the Microsoft Windows operating system and its core functionality. (Use windows explorer / internet explorer (i.e. things like find web page , create a folder); Login (CTRL+ALT+DELETE); Start a service using services add-in. (administration tools); Use a mouse, start menu etc.)
- Working knowledge of Transact-SQL.
- Working knowledge of relational databases.
- Some experience with database design.

Delegates will learn how to

- Install and configure SQL Server 2008.
- Manage database files.
- Backup and restore databases.
- Manage security.
- Transfer data into and out of SQL Server.
- Automate administrative tasks.
- Replicate data between SQL Server instances.
- Maintain high availability.
- Monitor SQL Server.

Course Outline

Module 1: Installing and Configuring SQL Server

The students will be introduced to planning for a SQL Server installation. The students will then be introduced to installing, configuring, and managing SQL Server.

Module 2: Managing Databases and Files

The students will be introduced to database planning and creation, and using database options to control database behavior.

Module 3: Disaster Recovery

The students will be introduced to disaster recovery techniques for SQL Server. They will learn how to perform different types of backup and restore operations, including online restores and backup and restores of system databases.

Module 4: Managing Security

The students will be introduced to protecting SQL Server. Students will learn about the SQL Server security model and how to use SQL Server security features to control access to databases and their contents.

Module 5: Transferring Data

The students will be introduced to transfer data to and from SQL Server using UI and command-line tools, and learn about transferring and transforming data with SQL Server Integration Services.

Module 6: Automating Administrative Tasks

The students will learn how to automate routine administrative tasks using jobs, operators, and alerts.

Module 7: Implementing Replication

The students will be introduced to techniques for configuring SQL Server replication.

Module 8: Maintaining High Availability

The students will be introduced to concepts and methods for maintaining high availability with SQL Server.

Module 9: Monitoring SQL Server

The students will be introduced to monitoring SQL Server performance and activity.

Module 10: Troubleshooting and Performance Tuning

The students will learn how to troubleshoot a variety of common SQL Server problems. Students will also learn how to tune SQL Server for improved performance using a variety of tools.

Related Certifications

This course forms part of the following certification track(s):

- MCTS: SQL Server 2008, Implementation and Maintenance
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