



Upgrading Your SQL Server 2000 Database Administration (DBA) Skills to SQL Server 2008 DBA Skills

This three-day instructor-led course provides participants with the knowledge and skills to upgrade their SQL Server 2000 database administration (DBA) skills to SQL Server 2008 DBA skills. Please note that there is no certification exam related to this course.

Who Should Attend: Course Objectives:

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

Course Prerequisites:

Before attending this course, participants should have:

- Before attending this course, participants must have experience developing or administering SQL Server 2000 databases

After completing this course, participants will be able to:

- Describe the new features of SQL Server 2008
- Plan for a SQL Server 2008 installation, upgrade, and migration
- Understand SQL Server data types
- Manage SQL Server 2008
- Secure a SQL Server 2008 database
- Prepare for and recover from potential database disasters
- Maintain availability to their SQL Server data even through server downtime
- Configure replication of SQL Server 2008 databases
- Implement policy-based management
- Monitor database activity
- Monitor and manage database performance

Course Code: 6317
Course Duration: 3 Days

Course Summary

Module 1: An Introduction to SQL Server 2008

Module 2: Installing and Upgrading to SQL Server 2008

Module 3: Storage Enhancements in SQL Server 2008

Module 4: SQL Server 2008 Administration Enhancements

Module 5: Security Enhancements with SQL Server 2008

Module 6: SQL Server 2008 Disaster Recovery

Module 7: High Availability in SQL Server 2008

Module 8: Replication Enhancements in SQL Server 2008

Module 9: SQL Server 2008 Policy-Based Management

Module 10: SQL Server 2008 Monitoring Enhancements

Module 11: SQL Server 2008 Performance



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Course Outline

Module 1: An Introduction to SQL Server 2008

- The Evolution of SQL Server
- SQL Server 2008 Architectural Components

Module 2: Installing and Upgrading to SQL Server 2008

- Preparing for SQL Server 2008 Installation
- Installing SQL Server 2008
- Upgrading a SQL Server 2000 Instance
- Configuring a SQL Server Installation
- Using SQL Server Configuration Manager

Lab: Upgrading SQL Server 2000 to 2008

- Analyzing the SQL Server 2000 Instance
- Upgrading to SQL Server 2008
- Validating the Upgrade
- Reviewing SQL Server Books Online

Module 3: Storage Enhancements in SQL Server 2008

- Data Type Enhancements
- Table Partitioning
- Indexing Enhancements
- Tuning Indexes (Optional)

Lab: Disaster Recovery

- Partitioning Tables
- Using the Database Engine Tuning Advisor (Optional)

Module 4: SQL Server 2008 Administration Enhancements

- Administration Tools Overview
- Using SQL Server Management Studio
- Using the sqlcmd Utility
- Using Windows PowerShell

Lab: Maintaining High Availability

- Using SQL Server Management Studio
- Using SQL Server Command-Line Management
- Using PowerShell

Module 5: Security Enhancements with SQL Server 2008

- Lesson 1: SQL Server 2008 Security Overview
- Lesson 2: Managing SQL Server 2008 Security
- Lesson 3: Managing Permissions
- Lesson 4: Managing Keys and Certificates
- Lesson 5: Data Encryption

Lab: Securing a SQL Server 2008 Database

- Managing Principals
- Managing Securables
- Managing Permissions
- Configuring Column Encryption
- Transparent Data Encryption

Module 6: SQL Server 2008 Disaster Recovery

- Database Backup
- Backup Compression
- Database Restoration
- Database Snapshots

Lab: SQL Server 2008 Disaster Recovery

- Making a Copy-Only Backup
- Using Compression for Backup Files
- Creating the Database Snapshot
- Restoring From a Database Snapshot

Module 7: High Availability in SQL Server 2008

- Log Shipping
- Database Mirroring
- Determining the Best High Availability Solution

Lab: SQL Server 2008 High Availability

- Implementing Log Shipping
- Implementing Database Mirroring
- Implementing Peer-to-Peer Replication



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Module 8: Replication Enhancements in SQL Server 2008

- New Types of Replication
- Additional Replication Enhancements

Lab: Implementing Replication

- Implementing Peer-to-Peer Transactional Replication
- Implementing HTTP Replication

Module 9: SQL Server 2008 Policy-Based Management

- Understanding Central Management Servers
- Understanding Policy-Based Management
- Implementing Policy-Based Management

Lab: Using Policy-Based Management

- Creating a Central Management Server and Server Group
- Creating and Applying a Policy

Module 10: SQL Server 2008 Monitoring Enhancements

- Monitoring a Database
- Using DDL Triggers
- Auditing in SQL Server
- Event Notifications
- Using Static and Dynamic Metadata

Lab: Monitoring SQL Server 2008

- Monitoring SQL Server Activity
- Tracing SQL Server Activity
- Using DLL Triggers
- Using Event Notification

Module 11: SQL Server 2008 Performance

- Managing Workloads with Resource Governor
- Monitoring Performance with the Data Collector
- Managing Performance with Plan Freezing

Lab: Managing SQL Server Performance

- Using Resource Governor
- Using the Data Collector
- Using Plan Freezing



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