

SQL Sever Bootcamp for SharePoint Administrators

IN BRIEF

Delivery: Instructor-led course

Duration: 3 days

Class size: 10 Students Max.

Cost Per Person: \$1685+ GST (Early Bird price when booked through CSG) OR \$2100+ GST

Inclusions: Solid Quality expert instructor, comprehensive course manual, individual computer access and fully catered lunch, morning and afternoon tea breaks.

Prerequisites: Before attending this course, it is recommended that students have the following skills:

- Understanding of database concepts
- Basic knowledge of SharePoint administration

While not a prerequisite, attendees would find some existing knowledge of the T-SQL language would be useful.

Products Covered: Material applicable to both SQL Server 2005 and 2008 is provided and enhancements only available in 2008 are clearly identified.

While based on SQL Server 2008, this course is highly relevant for those working on SQL Server 2005 as well.

Course Description

Many SharePoint administrators now find themselves (often reluctantly) involved in managing the SQL Server installation that supports their SharePoint farms. This intensive three day course covers the most important SQL Server administration concepts and techniques that are useful for SharePoint administrators.

Material applicable to both SQL Server 2005 and 2008 is provided and enhancements only available in 2008 are clearly identified.

Audience

This course is intended for:

- New or existing SharePoint administrators needing greater understanding of SQL Server
- SharePoint developers needing to work with SQL Server

Objectives

Attendees will gain a working understanding of SQL Server administration as it applies to SharePoint, along with an understanding of common high availability options, performance monitoring and troubleshooting. The course targets both SQL Server 2005 and 2008.

Course Overview

Day 1

SQL Server Versions, Editions, Tools and Configuration

- SQL Server Product Positioning
- Versions and Editions
- Upgrading 32 Bit Systems to 64 Bit
- SQL Server Management Studio
- SQL Server Configuration Manager
- Protocols
- Service Accounts

System Databases and Access Control

- Authentication in SQL Server
- Logins and Users
- Authorization
- System Databases
- tempdb Usage and Configuration

Database File Structures

- Database Files and Filegroups
- Planning and Configuring File Growth
- Instant File Initialization
- Shrinking Database Files
- Transaction Logs

SQL I/O Characteristics and Technologies

- SQL Server I/O Characteristics
- Storage Technologies
- RAID

Day 2

Installing SQL Server to Support SharePoint

- SQL Server Installation
- SharePoint Advanced Installation Option for DBA Created Databases
- Avoiding Filesystem Fragmentation
- Preinstallation I/O Subsystem Stress Testing
- I/O Subsystem Performance Testing

SQL Server Backup and Recovery

- Recovery Models
- Database and SharePoint Farm Backup
- Backup Compression
- Restoring Databases

Moving Databases

- Detaching Databases
- Attaching Databases
- SIDs
- Mismatched SIDs
- Collation Issues

.....Topics Covered Continued

SQL Server Indexing

- SQL Server Index Structures
- Index Fragmentation
- Fillfactor
- PadIndex
- SharePoint Index Timer Job
- Index-related Dynamic Management Views

Day 3

Automating Management

- SQL Server Agent and Job System
- DBCC CHECKDB, CHECKTABLE
- Database Maintenance Plans

High Availability

- Log Shipping
- Mirroring
- Clustering

Database Encryption and Compression

- Transparent Database Encryption
- TDE Performance
- Restoring TDE Databases
- Page and Row Compression

Monitoring and Resource Allocation

- Resource Governor
- Data Collection and Management Data Warehouse
- SQL Server Profiler

For further information and registration details contact training.perth@csg.com.au or (08) 6250 7900