

6231A - Maintaining a Microsoft SQL Server 2008 Database

5 day course

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

Outcomes

- 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

Prerequisites

- 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

Audience

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

Location

Crimson Innovations
Unit 3
6 Catterthun Street
Winnellie
(see www.crimson.com.au/contact_us.htm for details)

Outline

Installing and Configuring SQL Server

- Preparing to Install SQL Server
- Installing SQL Server
- Configuring a SQL Server Installation

Managing Databases and Files

- Planning Databases
- Creating Databases
- Using Policy-Based Management

Disaster Recovery

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

Managing Security

- Overview of SQL Server Security
- Protecting the Server Scope
- Protecting the Database Scope
- Protecting the Server Scope
- Auditing Security

Transferring Data

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

Automating Administrative Tasks

- Automating Administrative Tasks in SQL Server
- Using SQL Server Agent
- Creating Maintenance Plans
- Implementing Alerts
- Managing Multiple Servers
- Managing SQL Server Agent Security

Implementing Replication

- Overview of Replication
- Managing Publications and Subscriptions
- Configuring Replication in some Common Scenarios

Maintaining High Availability

- Introduction to High Availability
- Implementing Log Shipping
- Implementing Database Mirroring
- Implementing Server Clustering
- Using Distributed High Availability Solutions

Monitoring SQL Server

- Viewing Current Activity
- Using SQL Server Profiler
- Monitoring with DDL Triggers
- Using Event Notifications

Troubleshooting and Performance Tuning

- Troubleshooting SQL Server
- Performance Tuning in SQL Server
- Using Resource Governor
- Using Data Collector