Microsoft SQL Server 2000: System Administration

Objectives:
This course teaches you how to install, configure, administer, and troubleshoot Microsoft SQL Server 2000 in a Windows 2000 Server environment. This course also assists you in preparing for the Microsoft Certified Systems Engineer and Microsoft Certified Database Administrator Exam #70-228, Installing, Configuring, and Administrating Microsoft SQL Server 2000 Enterprise Edition.

Prerequisites:
To ensure your success, we recommend you first take either the Windows 2000: Installation and Administration or the Windows 2000 for Windows NT Administrators: courses, or have equivalent knowledge.

Duration:
3 days

Additional Information:
Consultancy or Tailored courses are available upon request

Course Contents

Introduction to Microsoft SQL Server	
Exploring the Components of SQL Server	Understanding the SQL Server Architecture
Exploring the Features of Microsoft SQL Server	Administering SQL Server
Discussing the Components of SQL Server	Determining SQL Server Administration Tasks
Identifying the Default Databases and System Tables	Identifying Administrative Utilities

Installing SQL Server	
Identifying the Requirements for InstallingSQL Server	Exploring the SQL Server Installation
Choosing the Hardware and Software for SQL Server 2000	Starting SQL Server Enterprise Manager
Selecting Your Server's Hardware	Viewing the System Databases Within SQL Server EnterpriseManager
Identifying Where to Install SQL Server	Creating and Working with a Database Diagram
Choosing Installation Options for SQL Server	Using SQL Server Enterprise Manager to Configure Your Server
Installing SQL Server	Troubleshooting the SQL Server Installation
Creating and Configuring a Service Account for SQL Server	Testing the SQL Server Installation
Performing Unattended Installations	Viewing the SQL Server Log
Using the SQL Server Service Manager to Manage the SQL Services	

Designing and Implementing Databases	
Developing a Strategy for Implementing Databases	Changing the Default Filegroup

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Discussing SQL Server Terminology	Using SQL Server Enterprise Manager to Configure a Database
Identifying the Space Requirements for Databases	Using Stored Procedures to View Database Information
Viewing Space Statistics	Managing Databases
Optimizing Database Performance	Configuring SQL Server to Automatically Expand a Database
Creating Databases	Manually Expanding a Database and its Transaction Log
Using Transact-SQL to Create a New Database	Configuring SQL Server to Automatically Shrink a DatabaseFile
Using SQL Server Enterprise Manager to Create a New Database	Deleting a Database

Creating and Managing Tables

Creating Tables	Using Transact-SQL to Work with Tables
Designing Tables	Using the INSERT Statement to Add Rows to a Table
Choosing Data Types for a Table	Using the UPDATE Statement
Identifying the Role of Constraints in a Table	Using the DELETE Statement
Using SQL Server Enterprise Manager to Create a Table	Formatting Columns in a Query
Modifying the Structure of a Table	

Designing and Configuring SQL Server Security

Identifying the Security Features of SQL Server	Implementing Statement and Object Permissions
Identifying the SQL Server Security Components	Comparing Permission Types
Configuring Your Server's Authentication Mode	Granting Statement Permissions
Configuring Encryption	Granting Object Permissions
Creating Login Accounts	Denying Statement Permissions
Creating a Login Account for a Windows Account	Denying Object Permissions
Denying Login Privileges	Revoking Statement and Object Permissions
Creating and Testing a SQL Server Login Account	Creating and Using an Application Role
Assigning Login Accounts to Server Roles	Creating and Using a View
Assigning Login Accounts as Database Users	Defining Linked Servers
Assigning a Login Account as a Database User in SQL ServerEnterprise Manager	Defining a Linked Server

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Adding a Database User to a Database Role	Configuring Linked Server Security
Creating a User-defined Database Role	

Importing and Exporting Data

Introduction to Data Transfer	Using bcp to Generate a Transfer File
Comparing the Data Transfer Utilities	Using bcp to Import a Transfer File
Creating a DTS Package by Using the DTS Import/Export Wizard	Configuring XML Support
Using DTS Designer to Modify a Package	Creating a Virtual Directory for SQL Server
Bulk Data Transfers	Running a URL Query

Backing Up SQL Server Databases

Planning Backups	Performing a Backup of the Master Database to a PermanentBackup Device
Planning to Back Up Your Server	Performing a Parallel Backup of the Class_mgr Database
Reviewing the Backup Process	Performing a Filegroup Backup
Backing Up Databases	Scheduling an Automatic Backup of the Msdb Database
Performing a Backup	Designing Your Backup Strategy
Creating a Permanent Backup Device	

Restoring SQL Server Databases

Restoring User-defined Databases	Restoring the Class_mgr Database
Observing an Automatic Recovery	Recovering System Databases
Reviewing User-initiated Database Recovery	Simulating a Master Database Failure
Creating Tables and Backing Up	Instructor Demo: Removing the Read-only Attribute From theSQL Server Installation Files
Simulating a Failed Database	Restoring the Master Database

Automating SQL Server Administration

Configuring SQL Server to Send Mail	Managing Jobs
Verifying the Configuration of the SQL Server Agent Service	Creating a Job
Instructor Demo: Configuring a Mailbox for the SQL ServerService Account	Viewing Job History Information
Creating a Mail Profile	Manually Running a Job
Configuring SQL Agent Mail	Running the Database Maintenance Plan Wizard
Configuring the SQL Server Service to Send and Receive Mail	Managing Alerts
Using SQL Mail to Send Query Results	Creating an Alert
Defining SQL Operators	Configuring Event Forwarding

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Course Contents

Using SQL Server Enterprise Manager to Define Operators	Troubleshooting Alerts
Specifying a Fail-Safe Operator	

Designing, Configuring, and Managing Replication	
Introduction to Replication	Configuring a Pull Subscription
Identifying Publishable Information	Creating an Initial Snapshot for a Publication
Choosing a Replication Model	Monitoring and Maintaining Replication
Choosing a Replication Strategy	Using the Replication Monitor
Configuring Replication	Maintaining the Distribution Database
Configuring a Publisher/Distributor	Creating Replication Scripts in SQL Server Enterprise Manager
Configuring Distributor and Publisher Properties	Troubleshooting Replication
Creating a Publication	Examining Replication Information in the Error Logs
Modifying a Publication	

Implementing Fault Tolerance	
Configuring Fault Tolerance in SQL Server 2000	Exploring Clustering

Monitoring SQL Server	
Designing a Strategy for Monitoring SQL Server	Using SQL Statements and SQL Server Enterprise Manager toMonitor Your Server
Discussing Server Optimization and Monitoring Techniques	Using SQL Server Profiler
Identifying the Factors That Affect the Performance of SQLServer	Using SQL Query Analyzer to Monitor a Query
Using Monitoring Tools	Choosing a Monitoring Tool
Observing Your Server's Current Activity	