

Introduction to SQL Server 2005 System Administration

What You Will Learn.....	1
General Overview: Database Servers and Database Administrators.....	2
The Database Server	2
The Database Administrator (DBA)	2
SQL Server 2005 Architecture.....	4
SQL Server 2005 Components	4
New Features in SQL Server 2005	5
Enterprise Data Management.....	5
Developer Productivity	5
Business Intelligence	5
Planning Your SQL Server 2005 Installation	6
Assessing Your Needs	6
Choosing a SQL Server Edition.....	7
Choosing an Operating System.....	9
Selecting Hardware	10
Pre-Installation Tasks and Considerations.....	13
Installing SQL Server 2005	15
Verifying Your Installation.....	23
Troubleshooting an Unsuccessful Installation.....	26
Using the SQL Server Error Log and Windows Server Application Log Files.....	26
Controlling (Starting and Stopping) SQL Server Services	28
Using the Services Snap-In.....	28
Using the Configuration Manager	30
Using the net Commands	32
Shutting Down the Server.....	33
Using the sqlservr Application for Debugging.....	33
Using the SQL Server Management Studio.....	37
Connecting to the Server.....	37
Navigating SQL Server Management Studio	40
Running Queries and Stored Procedures in SQL Server Management Studio.....	42
Registering the Server.....	43
Controlling the Server.....	49
Uninstalling an Instance of SQL Server	50
Exercise 1: Installing an Instance of SQL Server 2005	51

Configuring Network Protocols	52
SQL Server 2005 Supported Protocols	52
Configuring Server Protocols	52
Configuring Client Protocols	53
Configuring SQL Server 2005	55
Using SQL Server Management Studio.....	55
Running the sp_configure Stored Procedure	56
Memory Tuning	59
Monitoring System Performance Using the Windows System Monitor	59
Using the SQL Server Profiler.....	62
Exercise 2: Configuring SQL Server Options	63
SQL Server 2005 Security: Overview	64
Creating and Managing SQL Server Logins (Using SQL Server Management Studio)	66
Choosing an Authentication Mode	66
Setting Up Windows Domain Users and Groups	67
Viewing SQL Server Logins in SQL Server Management Studio	68
Creating SQL Server Logins.....	69
Viewing and Modifying SQL Server Login Properties	71
Granting Database Access	76
Deleting a Login	78
Exercise 3: Managing SQL Server Logins	80
Working with Server and Database Roles	81
Server Roles	81
Database Roles.....	83
Exercise 4: Working with Roles	89
Managing Permissions	90
Types of Permissions: Object Permissions and Statement Permissions	91
Assigning Object Permissions	92
Assigning Statement Permissions	98
Exercise 5: Managing Permissions	99
Using Transact-SQL to Manage SQL Server Security	100
Transact-SQL Syntax Conventions.....	100
Creating Logins (CREATE LOGIN)	100
Modifying Login Properties (ALTER LOGIN).....	102
Creating Database Users (CREATE USER).....	105
Removing Database Users (DROP USER).....	106
Running Commands in a Script	106
Granting Permissions (GRANT).....	107

Dropping a Login (DROP LOGIN)	109
Finding User and Permission Information	109
Exercise 6: Using Transact-SQL to Manage Security	112
Appendix A: SQL Server 2005 Installation Planning Checklist	113
Pre-Installation Decisions (Edition, Operating System, and Hardware)	113
Information Required for Installation	114
Appendix B: Setting Up Domains Users and Groups in Windows Server 2003.....	115
Creating a Windows Server 2003 Domain User Logon Account.....	115
Creating a Windows Domain Group.....	116
Adding Users to a Group	117
Appendix C: Solutions to Exercises	119