Course Description
This course is a soup-to-nuts course that will teach you everything you need to configure a server, maintain a SQL Server disaster recovery plan, and how to design and manage a secure solution. You’ll learn how to automate daily, weekly, and hourly tasks (like backups), the details of security, SQL Server clustering, replication, disaster recovery, and using jobs and database maintenance tasks. This course features more than 250 videos organized in twelve chapters and totals over 47 hours of instructor-led training for SQL Server 2008 and R2.

Table of Contents

1 - Overview, History, Editions, Licensing, and What’s New in SQL Server 2008
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12 - Installing and Upgrading to SQL Server 2008 R2

Pricing and Multi-User Licensing
LearnItFirst’s courses are priced on a per user, per course basis. Volume discounts start for as few as five users. Please visit our website or call us at +1(877) 630-6708 for more information.

$99.95 per user

- Purchasing this course allows you access to view and download the videos for one full year
- Course may be watched as often as necessary during that time
Who Is This Course Designed For?
People who have had some exposure to SQL Server but who have not undergone a full SQL Server 2008 DBA class. This is not a beginner-level course nor is an advanced course; it is intended for the beginner-to-intermediate and/or someone coming from another system (such as Oracle, DB2, or MySQL) who wants to learn how to administer a SQL Server.

Pre-Requisites
While a true beginner could take this course, it is actually recommended that you have at least 30 days experience working with SQL Server (or equivalent work experience with another database system) prior to taking this course.

About the Instructor
Scott Whigham is the founder of LearnItFirst.com, one of the web’s most extensive video training libraries focusing on technical training. Scott is also an experienced consultant, trainer, and author with more than a decade of hands-on experience working with SQL Server databases, writing and debugging applications using Visual Studio, and performance tuning. Scott designed the architecture (websites, class libraries, and database) for the LearnItFirst.com websites and, most recently, was involved in upgrading the websites and support applications from Visual Studio 2005 to Visual Studio 2008 and to SQL Server 2008.

Before founding LearnItFirst, Scott had been an independent consultant since 1998 focusing on SQL Server and .NET performance tuning and data warehousing. Scott has been asked to speak and train at events in the United States and Europe. As an author, Scott has written courses on SQL Server and C# and VB languages as well as popular articles for top-selling magazines and the MSDN (Microsoft Developer Network) library.

Frequently Asked Questions

- “How do I access the videos?” You can access the videos 24/7 online via our website.

- “Do I have to have internet access to watch the videos?” No! Users can download the videos to their hard drive.

- “How long are the videos?” The videos are broken into 10 minute task-oriented segments designed to teach you a single task.

- “How many videos are in a course?” It depends on the topic; courses can have anywhere from 20 - 200 videos.

For More Details
SQL Server 2008/R2
Database Administration

• CourseId: 157  • Skill level: 200-500  • Run Time: 47+ hours (272 videos)

47+ hours of instructor-led training!

Videos in this course:

Chapter 1: Overview, History, Editions, Licensing, and What’s New

1.1 - Course Introduction: What is Covered in this Course?
1.2 - The History of SQL Server
1.3 - The Editions of SQL Server, Part 1
1.4 - The Editions of SQL Server, Part 2
1.5 - Pricing and How Licensing Works in SQL Server 2008 - Part 1
1.6 - Pricing and How Licensing Works in SQL Server 2008 - Part 2
1.7 - What’s New in SQL Server 2008 - Part 1
1.8 - What’s New in SQL Server 2008 - Part 2
1.9 - What’s New in SQL Server 2008 - Part 3
1.10 - What’s New in SQL Server 2008 - Part 4
1.11 - Deprecated and Discontinued Items in SQL Server 2008

Chapter 2: Installing and Upgrading to SQL Server 2008

2.1 - Things You Have to Know Before You Install SQL Server - Part 1
2.2 - Things You Have to Know Before You Install SQL Server - Part 2
2.3 - Things You Have to Know Before You Install SQL Server - Part 3
2.4 - Things You Have to Know Before You Install SQL Server - Part 4
2.5 - Installing SQL Server 2008 Default Instance - Part 1
2.6 - Installing SQL Server 2008 Default Instance - Part 2
2.7 - Installing a Named Instance
2.8 - Understanding What Happens When You Install Multiple Instances
2.9 - Lecture on What Are Instances and When Are They Appropriate
2.10 - Service Packs, Hotfixes, and More: Keeping Your SQL Server 2008 Up to Date
2.11 - An Overview of What’s Installed: Tools
2.12 - Upgrading to SQL Server 2008: What Can Be Upgraded?
Videos in this course (cont.):

Chapter 2: Installing and Upgrading to SQL Server 2008 (cont.)

2.13 - Running the SQL Server 2008 Upgrade Advisor
2.14 - Upgrade SQL Server 2000 DTS Packages
2.15 - How to Upgrade from SQL Server 2000 or 2005 to SQL Server 2008
2.16 - What To Do After Your Upgrade Is Complete

Chapter 3: Using the Tools and Configuring SQL Server 2008

3.1 - An Overview of the Tools Installed in SQL Server 2008
3.2 - An Introduction to Using SQL Server Management Studio - Part 1
3.3 - An Introduction to Using SQL Server Management Studio - Part 2
3.4 - An Introduction to Using SQL Server Management Studio - Part 3
3.5 - An Introduction to SQL Server Configuration Manager, Visual Studio and Books Online
3.6 - How to Configure SQL Server: Service Accounts and Network Protocols
3.7 - How to Configure SQL Server: More on Network Protocols and Aliases
3.8 - How to Configure SQL Server: Configuring SQL Server Memory Usage
3.9 - How to Configure SQL Server: Configuring SQL Server CPU Usage
3.10 - How to Configure SQL Server: Security Settings and Connection Options
3.11 - How to Configure SQL Server: Defaults for All Databases
3.12 - How to Make Changes to the Configuration Using SSMS and Transact SQL
3.13 - Demo of Using SSMS and T-SQL to Make Configuration Changes
3.14 - Understanding and Optimizing the SQL Server Error Logs

Chapter 4: Working with Databases

4.1 - Databases in SQL Server 2008: The Data File and the Transaction Log
4.2 - Databases in SQL Server 2008: System Databases
4.3 - Databases in SQL Server 2008: The Different Types of Databases
SQL Server 2008/R2
Database Administration
• CourseId: 157   • Skill level: 200-500   • Run Time: 47+ hours (272 videos)

Videos in this course (cont.):

Chapter 4: Working with Databases (cont.)

4.4 - Creating SQL Server Databases - Part 1
4.5 - Creating SQL Server Databases - Part 2
4.6 - Creating SQL Server Databases - Part 3
4.7 - Creating SQL Server Databases - Part 4
4.8 - Creating SQL Server Databases - Part 5
4.9 - Creating SQL Server Databases - Part 6
4.10 - Creating SQL Server Databases - Part 7
4.11 - Creating SQL Server Databases - Part 8
4.12 - Creating SQL Server Databases - Part 9
4.13 - Creating SQL Server Databases - Part 10
4.14 - How to Configure a SQL Server Database - Part 1
4.15 - How to Configure a SQL Server Database - Part 2
4.16 - How to Configure a SQL Server Database - Part 3
4.17 - How to Configure a SQL Server Database - Part 4
4.18 - How to Configure a SQL Server Database - Part 5
4.20 - An Overview of Defragmenting Indexes - Part 2: How to Defragment Your Database
4.21 - An Overview of Defragmenting Indexes - Part 3: How to Defragment Your Database
4.22 - An Overview of Partitioning - Part 1: What is Partitioning?
4.23 - An Overview of Partitioning - Part 2: How to Partition Tables and Indexes
4.24 - An Overview of Partitioning - Part 3: How to Partition Tables and Indexes
4.25 - Managing Database Files - Part 1: Removing Databases and Using SQL Scripts
4.26 - Managing Database Files - Part 2: Removing Databases and Using SQL Scripts
4.27 - Managing Database Files - Part 3: How to Shrink a Database and Files
4.28 - Managing Database Files - Part 4: How to Shrink a Database and Files
Videos in this course (cont.):

**Chapter 4: Working with Databases (cont.)**
- 4.29 - Suggested Changes After an Upgrade - Part 1: Patching and Compatibility Levels
- 4.30 - Suggested Changes After an Upgrade - Part 2: Patching and Compatibility Levels
- 4.31 - Suggested Changes After an Upgrade - Part 3: Configuration Changes

**Chapter 5: Security in SQL Server 2008**
- 5.1 - Chapter Introduction and The Five Levels of SQL Server Security
- 5.2 - An Overview of the SQL Server Security Model
- 5.3 - Quick Demo: How to Create a SQL Server Login
- 5.4 - Creating Windows User and Windows Group Logins
- 5.5 - Quick Demo: How to Create Windows Group Logins and Prevent Certain Users
- 5.6 - Creating SQL Server Authentication Logins and Working with Policies
- 5.7 - What All SQL Server Logins Must Have, Part 1
- 5.8 - What All SQL Server Logins Must Have, Part 2
- 5.9 - Why You Don’t Want to Use the dbcreator Role
- 5.10 - Securables, Permissions, and Principals
- 5.11 - An Overview of the Server-scoped Securables
- 5.12 - Status: Disabled, Denied, and Locked Out Logins
- 5.13 - An Overview of the Logins and Accounts Added by SQL Server Installation
- 5.14 - An Introduction to Database-Level Security
- 5.15 - What are Schemas and How do I Use Them?
- 5.16 - How to Create Schemas
- 5.17 - Flexible Database Roles: What They Are and How to Use Them
- 5.18 - Application Roles: What They Are and How to Use Them
- 5.19 - How to Create Database Roles and Add Users
- 5.20 - How to Create and Manage Application Roles
Videos in this course (cont.):

Chapter 5: Security in SQL Server 2008 (cont.)

5.21 - Grant, Deny, and Revoke - Server Scoped Permissions
5.22 - Database Scoped Permissions
5.23 - Granting Database-Scoped Permissions
5.24 - Schema Scoped Permissions
5.25 - Impersonation and EXECUTE AS
5.26 - Database Permissions Demo, Part 1
5.27 - Database Permissions Demo, Part 2
5.28 - Database Permissions Demo, Part 3
5.29 - Concepts: Ownership and Cross Database Ownership Chaining
5.30 - Examples of Ownership Chains and Samples
5.31 - Broken Ownership Chains in SQL Server 2008
5.32 - Switching Execution Context using EXECUTE AS in Modules
5.33 - Encryption in SQL Server: Connections and Source Code
5.34 - Encryption in SQL Server: Data and Columns
5.35 - Distributed Queries: How to Create and Manage Linked Servers
5.36 - Distributed Queries: Using OPENDATASOURCE and OPENROWSET
5.37 - SIDs and User Accounts: What You Need to Know

Chapter 6: SQL Server Backup and Recovery

6.1 - Chapter Introduction and Setup of the Chapter Examples
6.2 - The Types of SQL Server Backups; Recovery Models
6.3 - The Simple and Full Recovery Models
6.4 - What are Bulk Operations in SQL Server?
6.5 - Transaction Log Architecture and the Bulk Logged Recovery Model
6.6 - How to Change the SQL Server Recovery Model
Videos in this course (cont.):

Chapter 6: SQL Server Backup and Recovery (cont.)

6.7 - The Basics of Restoring SQL Server Databases   
6.8 - Developing Backup Strategies, Part 1   
6.9 - Developing Backup Strategies, Part 2   
6.10 - Example Restore Scenarios and Crash Procedures   
6.11 - How Changing The Recovery Model Affects Backup Strategy   
6.12 - Strategies with the FULL Recovery Model   
6.13 - How Changing to BULK LOGGED Affects Your Risk   
6.15 - How to Take Backups in SQL Server Management Studio (SSMS)   
6.16 - How to Take Backups Using Transact-SQL, Part 1   
6.17 - How to Take Backups Using Transact-SQL, Part 2   
6.18 - Understanding How the Transaction Log Works, Part 1   
6.19 - Understanding How the Transaction Log Works, Part 2   
6.20 - What Happens When You Don’t Backup the Log, Part 1   
6.21 - What Happens When You Don’t Backup the Log, Part 2   
6.22 - Backup Devices   
6.23 - Misc Bits: Backup Compression and Security   
6.24 - Misc Bits: How to Turn On and View Backup Compression   
6.25 - Misc Bits: NO_WAIT, ROLLBACK AFTER, ROLLBACK IMMEDIATE   
6.27 - Misc Bits: Taking a Backup of the Log without Clearing It Out   
6.28 - Backing Up System Databases and Encryption Keys   
6.29 - Where to Look for Problems: Error Logs   
6.30 - Where to Look for Problems: Activity Monitor   
6.31 - Where to Look for Problems: Default Traces
SQL Server 2008/R2
Database Administration

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Videos in this course (cont.):

Chapter 6: SQL Server Backup and Recovery (cont.)

6.32 - Where to Look for Problems: The Dedicated Administrator Connection
6.33 - Reminders About the Restore Process
6.34 - The Fundamentals of Restoring Databases
6.35 - Performing Point in Time Restores
6.36 - How to Restore a SQL Server Database Using SSMS, Part 1
6.37 - How to Restore a SQL Server Database Using SSMS, Part 2
6.38 - How to Restore a SQL Server Database Using Transact-SQL
6.39 - Disaster Recovery: Restoring Your Entire SQL Server
6.40 - How to Rebuild Your SQL Server (a.k.a. Rebuild Master)
6.41 - How to Restore the Master Database
6.42 - How to Restore SQL Server System Databases, Part 1
6.43 - How to Restore SQL Server System Databases, Part 2
6.44 - How to Perform Use Emergency Mode and DBCC CHECKDB

Chapter 7: Automating Your SQL Server

7.1 - Chapter Introduction and Discussion of Automation
7.2 - How to Configure Database Mail
7.3 - Testing and Troubleshooting Database Mail
7.4 - How to Configure the SQL Server Agent
7.5 - SQL Server Alerts: What Are They and What Can They Do?
7.6 - Create SQL Server Event Alerts and Customize Your SQL Server, Part 1
7.7 - Create SQL Server Event Alerts and Customize Your SQL Server, Part 2
7.8 - How to Create a SQL Server WMI Alert
7.9 - Creating Performance Condition Alerts
7.10 - SQL Server Jobs: How to Create SQL Server Jobs
### Videos in this course (cont.):

**Chapter 7: Automating Your SQL Server (cont.)**
- 7.11 - Understanding Proxy Accounts and Job Steps
- 7.12 - Create a SQL Server Job to Backup Your Databases, Part 1
- 7.13 - Create a SQL Server Job to Backup Your Databases, Part 2
- 7.14 - Create a SQL Server Job to Reindex All Tables in a Database, Part 1
- 7.15 - Create a SQL Server Job to Reindex All Tables in a Database, Part 2
- 7.16 - Create a SQL Server Job to Verify Consistency of Your Database
- 7.17 - Create a SQL Server Job to Perform a Bulk Import
- 7.18 - How to Schedule an SSIS Package as a Job
- 7.19 - How to Use Tokens in Job Steps and Alerts
- 7.20 - Troubleshooting a SQL Job with a Token
- 7.21 - SQL Server Maintenance Plans

**Chapter 8: Miscellaneous Administration Topics**
- 8.1 - Chapter Overview and Start of How to Copy Databases
- 8.2 - Moving and Copying Databases Using Backup and Restore
- 8.3 - Moving and Copying Databases Using Detach and Attach
- 8.4 - Moving and Copying Databases Using SSIS and Wizards
- 8.5 - What Are Orphaned Users?
- 8.6 - How to Identify Orphaned Users and Use sp_change_users_login, Part 1
- 8.7 - How to Identify Orphaned Users and Use sp_change_users_login, Part 2
- 8.8 - How to Fix Orphaned Logins by Scripting Out Source Logins
- 8.9 - SQL CLR and Using .NET Assemblies in SQL Server
- 8.10 - What Every DBA Needs to Know About Assemblies and SQL Server
- 8.11 - An Introduction to the Resource Governor in SQL Server 2008
- 8.12 - Classifier Functions, Resource Pools and Workload Groups, Part 1

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Sales & information: (877) 630-6708
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**Chapter 9: SQL Server Monitoring and Performance**

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Videos in this course (cont.):

Chapter 10: Availability

10.1 - Chapter Introduction and Discussion of High Availability
10.2 - How to Setup Log Shipping in SQL Server 2008, Part 1
10.3 - How to Setup Log Shipping in SQL Server 2008, Part 2
10.4 - Log Shipping: How to Failover to Your Secondary Server (and Back)
10.5 - Log Shipping Best Practices
10.6 - What is Database Mirroring?
10.7 - Database Mirroring Architecture and Setup
10.8 - How to Setup Database Mirroring in SQL Server 2008
10.9 - Database Mirroring Failover
10.10 - Database Mirroring Best Practices
10.11 - Introduction to SQL Server Clustering, Part 1
10.12 - Introduction to SQL Server Clustering, Part 2
10.13 - How to Install a SQL Server 2008 Clustered Instance, Part 1
10.14 - How to Install a SQL Server 2008 Clustered Instance, Part 2
10.15 - Adding a Node to Your Cluster and Applying Service Packs
10.16 - SQL Server Clustering Best Practices
10.17 - Introduction to SQL Server Replication, Part 1
10.18 - Introduction to SQL Server Replication, Part 2
10.19 - How to Setup Peer-to-Peer Replication, Part 1
10.20 - How to Setup Peer-to-Peer Replication, Part 2
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#### Chapter 11: What’s New in SQL Server 2008 R2 for DBAs

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