

Updating Your SQL Server 2005 Skills to SQL Server 2008

Course GWE6158A0: Three days; Instructor-Led



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Introduction

This three-day instructor-led course provides students with the knowledge and skills to upgrade their SQL Server 2005 skills to SQL Server 2008.

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Audience

This course is intended for experienced SQL Server 2005 developers and database administrators who want to upgrade their skills to SQL Server 2008.

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At Course Completion

After completing this course, students will be able to:

- Describe the new features of SQL Server 2008.
- Manage SQL Server 2008.
- Optimize SQL Server 2008.
- Secure a SQL Server 2008 Database.
- Develop databases with SQL Server 2008.
- Create and maintain highly available SQL Server 2008 databases.
- Create and use a SQL Server 2008 data warehouse.
- Use SQL Server 2008 Reporting Services.
- Use SQL Server 2008 Analysis Services.

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Prerequisites

Before attending this course, students must have experience developing or administering SQL Server 2005 databases.

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Course Outline

Module 1: Introduction to SQL Server 2008

Lessons

- The Evolution of SQL Server
- Preparing for SQL Server 2008

Lab 1: Exploring SQL Server Books Online

- Reviewing the SQL Server Books Online Tutorials
- Reviewing SQL Server Books Online

After completing this module, students will be able to:

- Describe the evolution of SQL Server.
- Prepare for SQL Server 2008.

Module 2: SQL Server 2008 Manageability Enhancements

Lessons

- Configuration Servers
- Policy-Based Management

Lab 2: Managing SQL Server 2008

- Creating a Configuration Server
- Creating and Applying a Policy

After completing this module, students will be able to:

- Create and use a configuration server.
- Create and use policies.

Module 3: SQL Server 2008 Performance Enhancements

Lessons

- Managing Workloads with Resource Governor
- Monitoring Performance with the Data Collector
- Managing Performance with Plan Freezing

Lab 3: Optimizing SQL Server 2008

- Using Resource Governor
- Using the Data Collector

After completing this module, students will be able to:

- Manage workloads with Resource Governor.
- Monitor performance with the Data Collector.
- Manage performance with Plan Freezing.

Module 4: SQL Server 2008 Security Enhancements

Lessons

- Encrypting Databases
- Auditing All Actions

Lab 4: Securing a SQL Server 2008 Database

- Using Transparent Data Encryption

After completing this module, students will be able to:

- Encrypt databases.

- Audit all actions.

Module 5: SQL Server 2008 Database Development Enhancements

Lessons

- Developer Tool Enhancements
- Data Type Enhancements
- Working with Spatial Data

Lab 5: Developing Databases with SQL Server 2008

- Using Date and Time Data Types
- Using Spatial Data

After completing this module, students will be able to:

- Describe the developer tool enhancements in SQL Server 2008.
- Use the data type enhancements in SQL Server 2008.
- Work with spatial data.

Module 6: SQL Server 2008 Availability Enhancements

Lessons

- Always On Technologies
- Transactional Peer-to-Peer Replication

Lab 6: Maintaining High Availability

- Configuring Peer-to-Peer Replication
- Adding a Replication Node

After completing this module, students will be able to:

- Describe the SQL Server 2008 always on technologies.
- Implement transactional peer-to-peer replication.

Module 7: SQL Server 2008 Data Warehousing Enhancements

Lessons

- ETL Enhancements
- Using Partitioned Tables
- Optimizing Data Storage

Lab 7: Data Warehousing with SQL Server 2008

- Using Change Data Capture
- Using the MERGE Statement
- Working with Partitioned Data

After completing this module, students will be able to:

- Describe the ETL enhancements in SQL Server 2008.
- Use partitioned tables.
- Optimize data storage.

Module 8: SQL Server 2008 Reporting Services Enhancements

Lessons

- Reporting Services Architecture and Management
- Authoring Reports

- Report Processing and Rendering

Lab 8: Using SQL Server 2008 Reporting Services

- Creating a Report with Report Designer
- Managing Reporting Services

After completing this module, students will be able to:

- Describe the Reporting Services architecture and management.
- Author reports.
- Understand report processing and rendering.

Module 9: SQL Server 2008 Analysis Services Enhancements

Lessons

- Multidimensional Analysis with SQL Server Analysis Services
- Data Mining with SQL Server Analysis Services

Lab 9: Using SQL Server 2008 Analysis Services

- Implementing Multidimensional Analysis
- Implementing Data Mining

After completing this module, students will be able to:

- Implement multidimensional analysis.
- Implement data mining.