

Updating Your SQL 2005 Skills to SQL Server 2008

Course Code: M6158

Length: 3 Days

Course Description: This 3-day instructor-led course provides students with the knowledge and skills to update their skills in Microsoft SQL Server 2005 to SQL Server 2008.

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 by using 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.

Prerequisites

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

Outline

Module 1: An Introduction to SQL Server 2008

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

Lab: Exploring New Features in SQL Server 2008

- Exploring the SQL Server Installation Center
- Reviewing Tutorials in SQL Server Books Online
- Reviewing Topics in 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

- Central Management Servers

- Policy-Based Management

Lab: Managing SQL Server 2008

- Creating a Central Management Server
- Creating and Applying a Policy

After completing this module, students will be able to:

- Create and use a Central Management server.
- Create and use policies.

Module 3: SQL Server 2008 Performance Enhancements

- Managing Workloads by Using Resource Governor
- Monitoring Performance by Using Data Collector
- Managing Performance by Using Plan Freezing

Lab: Optimizing SQL Server 2008

- Using Resource Governor
- Using Data Collector

After completing this module, students will be able to:

- Manage workloads by using Resource Governor.
- Monitor performance by using Data Collector.
- Manage performance by using plan freezing.

Module 4: SQL Server 2008 Security Enhancements

- Encrypting Databases
- SQL Server Audit

Lab: Securing and Auditing a SQL Server 2008 Database

- Using Transparent Data Encryption
- Configuring Auditing

After completing this module, students will be able to:

- Encrypt databases.
- Configure SQL Server Audit.

Module 5: SQL Server 2008 Database Development Enhancements

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

Lab: 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

- Always-on Technologies
- Transactional Peer-to-Peer Replication

Lab: 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

- ETL Enhancements
- Using Partitioned Tables
- Optimizing Data Storage

Lab: Data Warehousing with SQL Server 2008

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

After completing this module, students will be able to:

- Describe the new extract, load, and transform (ETL) enhancements in SQL Server 2008.
- Use partitioned tables.
- Optimize data storage.

Module 8: SQL Server 2008 Reporting Services Enhancements

- Reporting Services Architecture and Management
- Authoring Reports
- Report Processing and Rendering

Lab: Using SQL Server 2008 Reporting Services

- Creating a Report
- Managing Reporting Services

Overview

After completing this module, students will be able to:

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



Advanced Infrastructure Solutions
Networking Infrastructure Solutions
Learning Solutions

Module 9: SQL Server 2008 Analysis Services Enhancements

- Multidimensional Analysis with SQL Server 2008 Analysis Services
- Data Mining with SQL Server 2008 Analysis Services

Lab: 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.