

Course 6158: Updating Your SQL 2005 Skills to SQL Server 2008

Three days , Instructor – led

About this Course

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

Audience Profile

This course is intended for developers and database administrators who are experienced with using SQL Server 2005 and want to update their skills to SQL Server 2008

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 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.

Course Outline

Module 1: An Introduction to SQL Server 2008

Lessons

- 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

Lessons

- 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

Lessons

- 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

Lessons

- 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

Lessons

- 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

Lessons

- 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

Lessons

- 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

Lessons

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

Lab : Using SQL Server 2008 Reporting Services

- Creating a Report
- 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 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.

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

Course Inclusions:

- Microsoft Official Curriculum (MOC) and/or Wizards Learning Courseware (WLC)
- Microsoft Certified Trainer (MCT)
- Lunch, AM and PM Snacks
- Certificate of Achievement
- Course Notes