MOC 6158 Updating Your SQL Server 2005 Skills to SQL Server 2008

Course Summary

Description

This course provides students with the knowledge and skills to upgrade their SQL Server 2005 skills to SQL Server 2008.

Objectives

At the end of 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.

Topics

- Introduction to SQL Server 2008
- SQL Server 2008 Manageability Enhancements
- SQL Server 2008 Performance Enhancements
- SQL Server 2008 Security Enhancements
- SQL Server 2008 Database Development Enhancements
- SQL Server 2008 Availability Enhancements
- SQL Server 2008 Data Warehousing Enhancements
- SQL Server 2008 Reporting Services Enhancements
- SQL Server 2008 Analysis Services Enhancements

Audience

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

Prerequisites

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

Duration

Three days

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Course Outline

I. Introduction to SQL Server 2008

A. The Evolution of SQL Server
B. Preparing for SQL Server 2008

Lab: 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.

II. SQL Server 2008 Manageability Enhancements

A. Configuration Servers
B. Policy-Based Management

Lab: 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.

III. SQL Server 2008 Performance Enhancements

A. Managing Workloads with Resource Governor
B. Monitoring Performance with the Data Collector
C. Managing Performance with Plan Freezing

Lab: 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.

IV. SQL Server 2008 Security Enhancements

A. Encrypting Databases
B. Auditing All Actions

Lab: Securing a SQL Server 2008 Database

- Using Transparent Data Encryption

After completing this module, students will be able to:

- Encrypt databases.
- Audit all actions.

V. SQL Server 2008 Database Development Enhancements

A. Developer Tool Enhancements
B. Data Type Enhancements
C. 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.

VI. SQL Server 2008 Availability Enhancements

A. Always On Technologies
B. Transactional Peer-to-Peer Replication

Lab: Maintaining High Availability

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

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After completing this module, students will be able to:

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

VII. SQL Server 2008 Data Warehousing Enhancements

A. ETL Enhancements
B. Using Partitioned Tables
C. Optimizing Data Storage

Lab: 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.

VIII.SQL Server 2008 Reporting Services Enhancements

A. Reporting Services Architecture and Management
B. Authoring Reports
C. Report Processing and Rendering

Lab: 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

A. Multidimensional Analysis with SQL Server Analysis Services
B. Data Mining with SQL Server 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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