

20462 Administering Microsoft® SQL Server® 2014 Databases

Overview

This five-day course provides students with the knowledge and skills to maintain a Microsoft SQL Server 2014 database. The course focuses on teaching individuals how to use SQL Server 2014 product features and tools related to maintaining a database.

Prerequisites

- 20461 Querying Microsoft SQL Server®

Prerequisite Comments

This course requires that you meet the following prerequisites: Basic knowledge of the Microsoft Windows operating system and its core functionality; Working knowledge of Transact-SQL; Working knowledge of relational databases; Some experience with database design. Students who attend this training can meet the prerequisites by attending the following courses, or obtaining equivalent knowledge and skills:
20461C: Querying Microsoft SQL Server 2014

Target Audience

The primary audience for this course is individuals who administer and maintain SQL Server databases. These individuals perform database administration and maintenance as their primary area of responsibility, or work in environments where databases play a key role in their primary job. The secondary audience for this course is individuals who develop applications that deliver content from SQL Server databases.

Course Objectives

After completing this course, students will be able to:

- Describe core database administration tasks and tools.
- Install and configure SQL Server 2014.
- Configure SQL Server databases and storage.
- Plan and implement a backup strategy.
- Restore databases from backups.
- Import and export data.
- Monitor SQL Server.
- Trace SQL Server activity.
- Manage SQL Server security.
- Audit data access and encrypt data.
- Perform ongoing database maintenance.
- Automate SQL Server maintenance with SQL Server Agent Jobs.
- Configure Database Mail, alerts and notifications.

[Register Online](#)

Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

Course Outline

Introduction to SQL Server 2014 Database Administration

Database Administration Overview
Introduction to the SQL Server Platform
Database Management Tools and Techniques
Lab: Using SQL Server Administrative Tools

Installing and Configuring SQL Server 2014

Planning SQL Server Installation
Installing SQL Server 2014
Post-Installation Configuration
Lab: Installing SQL Server 2014

Working with Databases and Storage

Introduction to Data Storage with SQL Server
Managing Storage for System Databases
Managing Storage for User Databases
Moving Database Files
Configuring the Buffer Pool Extension
Lab: Managing Database Storage

Planning and Implementing a Backup Strategy

Understanding SQL Server Recovery Models
Planning a Backup Strategy
Backing up Databases and Transaction Logs
Using Backup Options
Ensuring Backup Reliability
Lab: Backing Up SQL Server Databases

Restoring SQL Server 2014 Databases

Understanding the Restore Process
Restoring Databases
Advanced Restore Scenarios
Working with Point-in-Time Recovery
Lab: Restoring SQL Server Databases

Importing and Exporting Data

Introduction to Transferring Data
Importing and Exporting Table Data
Copying or Moving a Database
Lab: Importing and Exporting Data

Monitoring SQL Server 2014

Introduction to Monitoring SQL Server
Dynamic Management Views and Functions
Performance Monitor
Lab: Monitoring SQL Server 2014

Tracing SQL Server Activity

Tracing SQL Server Workload Activity
Using Traces
Lab: Tracing SQL Server Workload Activity

Managing SQL Server Security

Introduction to SQL Server Security
Managing Server-Level Security
Managing Database-Level Principals
Managing Database Permissions
Lab: Managing SQL Server Security

Auditing Data Access and Encrypting Data

Auditing Data Access in SQL Server
Implementing SQL Server Audit
Encrypting Databases
Lab: Auditing Data Access and Encrypting Data

Performing Ongoing Database Maintenance

Ensuring Database Integrity
Maintaining Indexes
Automating Routine Database Maintenance
Lab: Performing Ongoing Database Maintenance

Automating SQL Server 2014 Management

Automating SQL Server Management
Implementing SQL Server Agent Jobs
Managing SQL Server Agent Jobs
Managing Job Step Security Contexts
Managing Jobs on Multiple Servers
Lab: Automating SQL Server Management

Monitoring SQL Server 2014 by Using Alerts and Notifications

Monitoring SQL Server Errors
Configuring Database Mail
Configuring Operators, Alerts, and Notifications
Lab: Monitoring SQL Server by Using Alerts and Notifications

Related Courses, Certifications, Exams

- 20461 Querying Microsoft SQL Server®
 - MCSA: SQL Server
 - 70-462 - Administering Microsoft SQL Server Databases (2014)
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