Software Skills Training, Inc.

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Microsoft SQL Server 2016 Administration

Duration: 5 Days *(Face-to-Face & Remote-Live)*, or 35 Hours *(On-Demand)*

Price: $2495 *(Face-to-Face & Remote-Live)*, or $895 *(On-Demand)*

Discounts: We offer multiple discount options. Click here for more information.

Delivery Options: Attend face-to-face in the classroom, remote-live or via on-demand training.

Description

This five-day instructor-led course provides students who administer and maintain SQL Server 2016 databases with the knowledge and skills to administer a SQL Server database infrastructure.

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.

Comprehensive hands on exercises are integrated throughout the course to reinforce learning and develop real competency, including a highlight final exercise where students perform an actual failover between two SQL Server machines.

Prerequisites

Familiarity with database concepts, Windows desktop navigation and Transact-SQL. Attendance at our Microsoft Transact-SQL Programming course is highly recommended although not required.

Course Overview

Installation and Configuration

- Installing Multiple Instances of SQL Server 2016
- Applying a Service Pack

Authenticating and Authorizing Users

- Authenticating Connections to SQL Server
- Authorizing Logins to Access

- Creating Aliases
- Setting up a Central Management Server

Assigning Server and Database Roles

- Working with Server Roles
- Working with Fixed Database Roles
- Creating User-Defined Database Roles

Protecting Data with Encryption and Auditing

- Options for Auditing Data Access in SQL Server
- Implementing SQL Server Audit
- Managing SQL Server Audit
- Protecting Data with Encryption

Backup of SQL Server Databases

- Backing up Databases and Transaction Logs
- Managing Database Backups
- Working with Backup Options

Tracing Access to SQL Server

- Capturing Activity Using SQL Server profiler
- Improving Performance with the Database Engine Tuning Advisor
- Working with Tracing Options

Troubleshooting SQL Server

- Resolving Service Related Issues
- Resolving Login and Connectivity Issues
- Troubleshooting Common Issues

Maintaining High Availability of Data

- Windows Clustering
- AlwaysOn Availability Groups
- Implementing AlwaysOn
- Implementing Log Shipping

Databases
- Authorization Across Servers
- Partially Contained Databases

Authorizing Users to Access Resources

- Authorizing User Access to Objects
- Authorizing Users to Execute Code
- Configuring Permissions at the Schema Level

SQL Server Recovery Models

- Backup Strategies
- Understanding SQL Server Transaction Logging
- Planning a SQL Server Backup Strategy

Restoring SQL Server Databases

- Understanding the Restore Process
- Restoring Databases
- Working with Point-in-time Recovery
- Restoring System Databases and Individual Files

Monitoring SQL Server

- Monitoring Activity
- Capturing and Managing Performance Data
- Analyzing Collected Performance Data

Importing and Exporting Data

- Transferring Data to/from SQL Server
- Importing and Exporting Table Data
- Using BCP and BULK INSERT to Import Data

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