Document Generated: 11/21/2024

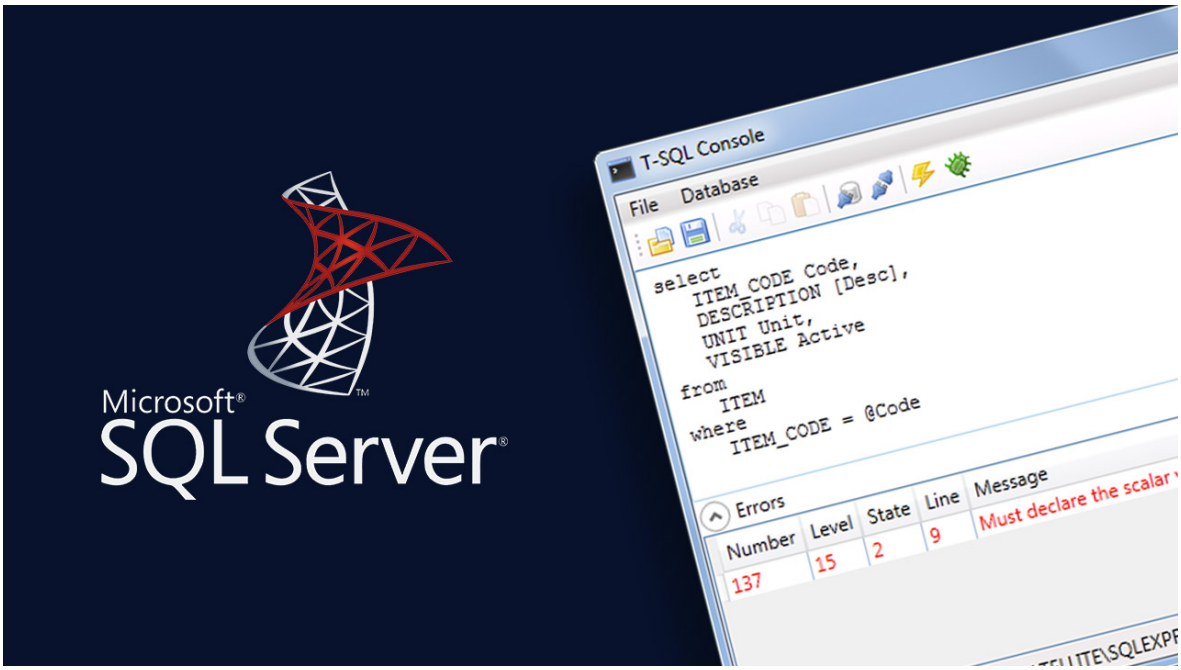
Learning Style: Virtual Classroom

Provider: Microsoft

Difficulty: Intermediate

Course Duration: 2 Days

PowerShell for SQL Server Administrators (MS-55069)



About this Course:

Our brief yet highly intensive IT Ops Training program is designed to help students gain professional knowledge of PowerShell. This course is taught by professional instructors from the industry to help you gain the knowledge and skills required to become efficient SQL Server Administrators for PowerShell.

With the knowledge and exercises taught in the course, you will be able to efficiently manage a number of maintenance tasks on SQL Server 2012, 2014, and 2016. The purpose of this course is to allow students to gain adequate learning of

the administration, Integration Services, and Analysis Services of the platform.

Course Objectives:

After completing this course, students will be able to:

- Install and Configure SQL Server and all its components using PowerShell
- Manage day-to-day SQL Server Administration with PowerShell
- Maintain the SQL Server environment using PowerShell scripting and programming options

Audience:

This IT Ops training program is designed for students who want to or are willing to work as SQL Server Administrators in Windows. You must have a minimum of one year of experience as a PowerShell administrator.

Prerequisites:

Before attending this course, students must have:

- Experience working on Windows desktops or servers
- Experience working in a Windows domain environment
- Experience Administering SQL Server Servers
- Fundamental experience with PowerShell or Course 10961B - Automating Administration with Windows PowerShell

Course Outline:

Course outline

Module 1: Install and Configure SQL Server with PowerShell

This module explains how to setup SQL Server components using PowerShell.

Lessons

- Module Objectives
- Lesson 1: Install SQL Server
- Lesson 2: Configure Database Settings
- Lesson 3: Configure SQL Server Settings
- Lesson 4: Configure SQL Server Policy-Based Management
- Review

Lab : Configuring SQL Server with PowerShell

After completing this module, students will be able to:

- Install SQL Server
- Add/Remove components to an existing instance (SSRS, SSIS, SSAS, etc.)
- Configure SQL Server and Database Settings
- Configure SQL Server Policy-Based Management

Module 2: Administering SQL Servers with PowerShell

This module explains how to perform day-to-day administrative tasks on SQL Server Servers using PowerShell.

Lessons

- Module Objectives
- Lesson 1: Managing Users and Roles
- Lesson 2: Managing Database Performance
- Lesson 3: Managing Database Availability
- Lesson 4: Managing SQL Server Features
- Review

Lab : Administering SQL Servers with PowerShell

After completing this module, students will be able to:

- Manage Users and Roles
- Manage Database Performance
- Manage Database Availability with Clustering & AlwaysOn Availability Groups
- Manage Integration Services and Analysis Services

Module 3: Maintaining SQL Server with PowerShell

This module explains how to perform maintenance tasks on SQL Servers using PowerShell.

Lessons

- Module Objectives
- Managing Backups and Restores
- Maintaining Database Integrity and Performance
- Monitoring and Auditing
- Task Automation
- Generating Reports
- Review

Lab : Maintaining SQL Servers with PowerShell

After completing this module, students will be able to:

- Manage SQL Server Backups and Restores
- Maintain Database Integrity and Performance

- Monitor and Audit changes to a SQL Server
- Task Automation on SQL Server
- Generate SQL Server Reports

Credly Badge:

Display your Completion Badge And Get The Recognition You Deserve.

Add a completion and readiness badge to your Linkedin profile, Facebook page, or Twitter account to validate your professional and technical expertise. With badges issued and validated by Credly, you can:

- Let anyone verify your completion and achievement by clicking on the badge
- Display your hard work and validate your expertise
- Display each badge's details about specific skills you developed.

Badges are issued by QuickStart and verified through Credly.

Find Out More or See List Of Badges