

Course WLC-SQL1201: SQL Server 2012 DBA Ranger Program

Ten (10) days, Instructor-Led

This boot camp is an intensified certification program on Microsoft SQL Server 2012 for beginning Database Administrators, fresh graduates, career shifters or for IT Professionals who will be re-tooled as a DBA to provide them with the right skills to maintain and administer a SQL Server 2012 database. This training has been designed in such a way that topics are arranged in a sequential manner that will allow beginners to understand the foundational skills needed for a DBA Administrator.

At the end of the training, students will be able to manage and administer a SQL Server database and optimize and fine tune database queries.

Audience

The primary audience for this course are individuals who administer and maintain SQL Server. This course can also be helpful for individuals who develop applications that deliver content on SQL Server. Fresh graduates, career shifters, IT Professionals who will be re-tooled to become a DBA who comply with the pre-requisites of the course are also welcome to attend this training.

Pre-requisites

Before attending this course, in addition to their personal experience, students must have:

- Basic knowledge of the Microsoft Windows operating system and its core functionality
- Basic experience with database design

Course Outline

Part 1: SQL Server Development Essentials (2 days)

- Module 1: Data Architecture
- Module 2: Database Design Principles

- Module 3: Merging Data using JOINS and UNIONS
- Module 4: Including Data with SUBQUERIES and CTE's
- Module 5: Data Aggregation

- Module 6: Using TSQL for Windowing and Ranking

Part 2: Administering SQL Server 2012 Databases (5 days)

- Module 1: Introduction to SQL Server 2012 and its Toolset
- Module 2: Preparing Systems for SQL Server 2012
- Module 3: Installing and Configuring SQL Server 2012
- Module 4: Working with Databases
- Module 5: Understanding SQL Server 2012 Recovery Models
- Module 6: Backup of SQL Server 2012 Databases
- Module 7: Restoring SQL Server 2012 Databases
- Module 8: Importing and Exporting Data
- Module 9: Authenticating and Authorizing Users
- Module 10: Assigning Server and Database Roles
- Module 11: Authorizing Users to Access Resources
- Module 12: Auditing SQL Server Environments
- Module 13: Automating SQL Server 2012 Management
- Module 14: Configuring Security for SQL Server Agent

- Module 15: Monitoring SQL Server 2012 with Alerts and Notifications
- Module 16: Performing Ongoing Database Maintenance
- Module 17: Tracing Access to SQL Server 2012
- Module 18: Monitoring SQL Server 2012
- Module 19: Managing Multiple Servers
- Module 20: Troubleshooting Common SQL Server 2012 Administrative Issues

Part 3: SQL Server 2012 Performance Query Tuning (3 days)

- Module 1: Introduction
- Module 2: Fundamentals of Indexing
- Module 3: Execution to Plan Basics
- Module 4: Essential Indexing Techniques
- Module 5: Query Design for Performance
- Module 6: Performance Tuning Tools
- Module 7: Tips and Tricks
- Module 8: Checklist Performance Tuning
- Module 9: Report Design Tips and Tricks

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