

Introducing Microsoft SQL Server 2012 Training Course

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Introducing Microsoft SQL Server Training Course Overview:

This comprehensive course provides an in-depth look into the world of Microsoft SQL Server 2012, specifically tailored to address the evolving needs of database professionals. It covers a variety of topics including SQL Server 2012 Editions, Database Administration Enhancements, and SQL Server Performance Upgrades. Participants will delve into advanced features like High-Availability SQL Server, SQL Server Disaster Recovery, and AlwaysOn Availability Groups. The course also emphasizes SQL Server Security Features and Management, alongside Columnstore Index SQL Server for optimized performance. SQL Server Scalability and Programmability are key areas, extending to Beyond-Relational SQL Server capabilities. Integration Services, Data Quality, and Master Data Services form the backbone of our data management discussions. Analysis Services, PowerPivot, Reporting Services, and advanced topics like SQL Server Data Visualization and Data Alerts are also prominently featured, ensuring a holistic understanding of SQL Server 2012.

Target Audience:

This course is ideal for Database Administrators, IT Professionals, Data Analysts, System Engineers, and Developers. They will find the sessions on SQL Server Security Features, High-Availability, and Disaster Recovery particularly beneficial. The course will also assist those aiming to upgrade their skills in SQL Server Performance, Scalability, and Data Quality Management.

Targeted Organizational Departments:

Departments like IT, Data Analytics, System Administration, and Development will benefit most. Key focuses for these departments include SQL Server Administration Enhancements, Security Management, and SQL Server Scalability, aiding in efficient database management and secure data handling.

Targeted Industries:

- Industries such as Finance
- Healthcare
- IT Services
- Retail
- and Government sectors
- where data security and management are crucial will greatly benefit. Topics like SQL Server Security, High Availability, Disaster Recovery, and Data Quality are particularly relevant, addressing specific industry challenges and regulatory requirements.

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Course Offerings:

in the end of this course Participants will learn:

- Advanced Database Administration and SQL Server 2012 Editions
- Performance Tuning and Upgrades
- Implementing High-Availability Systems and Disaster Recovery Strategies
- Security Management and Advanced Security Features
- Scalability Solutions and Columnstore Index Optimization
- Enhancing SQL Server Programmability and Beyond-Relational Features
- Utilizing Integration Services, Data Quality Services, and Master Data Services
- Analysis Services, PowerPivot, and Reporting Services for advanced data handling
- Techniques in Data Visualization and Alert Management

Training Methodology:

This course employs a blend of theoretical and practical learning methods, including case studies, interactive sessions, and hands-on practice. Each module, such as SQL Server Performance Upgrades or High-Availability SQL Server, will include real-world scenarios and problem-solving exercises. Participants will engage in group work to explore SQL Server Security Features and Disaster Recovery, enhancing their collaborative skills. Feedback sessions will be integral, focusing on areas like SQL Server Scalability and Data Quality.

Course Toolbox:

The toolbox includes:

- Comprehensive Workbooks on SQL Server 2012 Editions and Administration
- Access to SQL Server for practical exercises
- Online Resources and Reading Materials on SQL Server Performance and Security
- Checklists for High-Availability and Disaster Recovery Planning
- Templates for SQL Server Security Management and Data Alert Systems

Course Agenda:

Day 1: Foundations and Enhancements in SQL Server 2012

- Topic 1: Introduction to SQL Server 2012 Editions and Engine Enhancements
- Topic 2: SQL Server 2012 Enhancements for Database Administrators
- Topic 3: Exploring Availability, Scalability, and Performance Enhancements
- Topic 4: Manageability and Security Enhancements in SQL Server 2012
- Topic 5: Delving into Programmability Enhancements
- Reflection & Review: Recap of SQL Server 2012's Core Enhancements and Editions

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Day 2: Mastering High-Availability and Disaster Recovery

- Topic 1: SQL Server AlwaysOn: Understanding the Flexible and Integrated Solution
- Topic 2: Deep Dive into AlwaysOn Availability Groups
- Topic 3: Active Secondaries and their Role in High-Availability
- Topic 4: Exploring SQL Server 2012 Deployment on Windows Server Core
- Topic 5: Additional High-Availability and Disaster-Recovery Features
- Reflection & Review: Reviewing High-Availability and Disaster Recovery Strategies

Day 3: Performance, Scalability, and Security Focus

- Topic 1: Columnstore Index Overview: Transforming Data Storage and Access
- Topic 2: Best Practices for Implementing Columnstore Indexes
- Topic 3: Security Enhancements in SQL Server 2012
- Topic 4: Addressing New Authentication and Cryptography Changes
- Topic 5: Provisioning Enhancements and Advanced Permission Management
- Reflection & Review: Integrating Performance and Security Enhancements

Day 4: Exploring Programmability and Beyond-Relational Features

- Topic 1: Addressing the Pain Points of Using Beyond-Relational Paradigm
- Topic 2: FILESTREAM Enhancements and FileTable Implementation
- Topic 3: Utilizing Full-Text and Semantic Search for Data Insights
- Topic 4: Spatial Data Enhancements and Extended Events
- Topic 5: Integrating Beyond-Relational Features in Traditional Database Systems
- Reflection & Review: Summarizing Programmability and Beyond-Relational Enhancements

Day 5: Business Intelligence Development and Advanced Reporting

- Topic 1: Integration Services in SQL Server 2012: New Features and Developer Experience
- Topic 2: Embracing Data Quality Services for Improved Data Integrity
- Topic 3: Master Data Services: Configuration and Management Techniques
- Topic 4: Enhancements in Analysis Services and PowerPivot
- Topic 5: Advanced Reporting Services: Power View and Data Alerts
- Reflection & Review: Consolidating Business Intelligence and Reporting Capabilities

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How This Course is Different from Other SQL Server Courses:

"Introducing Microsoft SQL Server Training Course" stands out by offering a comprehensive, updated curriculum covering SQL Server 2012's latest features. Unlike other courses, it dives deep into High-Availability solutions, Disaster Recovery planning, and the latest in Security Management. The course uniquely combines theoretical knowledge with practical, hands-on experience, especially in areas like SQL Server Scalability and Performance Upgrades. The use of real-world case studies and interactive sessions makes it more engaging and relevant. Furthermore, the inclusion of advanced topics like SQL Server Data Visualization and Data Alert Management sets this course apart, ensuring participants are well-versed in the newest trends and technologies in SQL Server.

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- Data Analytics Training and Data Science Courses
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