

# 20462: Administering Microsoft SQL Server 2014 Databases

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## Course Details

### Course Outline

#### 1. 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

#### 2. Installing and Configuring SQL Server 2014

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

#### 3. 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

#### 4. 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

#### 5. 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

## **6. Importing and Exporting Data**

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

## **7. Monitoring SQL Server 2014**

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

## **8. Tracing SQL Server Activity**

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

## **9. 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

## **10. Auditing Data Access and Encrypting Data**

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

## **11. Performing Ongoing Database Maintenance**

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

## **12. 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

## **13. 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