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| <u>20462CC</u> | <u>Administering Microsoft SQL Server Databases</u> | <u>5 DAYS</u> | <u>SATV : YES</u> |
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## Course Description

This five-day instructor led course provides students with the technical skills required to write basic Transact-SQL queries for Microsoft SQL Server 2014. This course is the foundation for all SQL Server-related disciplines; namely, Database Administration, Database Development and Business Intelligence.

## Course Outline

### Module 1: Importing and Exporting Data

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

### Module 2: Monitoring SQL Server 2014

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

### Module 3: Tracing SQL Server Activity

- Tracing SQL Server Workload Activity
- Using Traces

### Module 4: Introduction to SQL Server 2014 Database Administration

- Database Administration Overview
- Introduction to the SQL Server Platform
- Database Management Tools and Techniques

### Module 5: Installing and Configuring SQL Server 2014

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

### Module 6: 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

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## **Module 7: 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

## **Module 8: Restoring SQL Server 2014 Databases**

- Understanding the Restore Process
- Restoring Databases
- Advanced Restore Scenarios
- Working with Point-in-Time Recovery

## **Module 9: Managing SQL Server Security**

- Introduction to SQL Server Security
- Managing Server-Level Security
- Managing Database-Level Principals
- Managing Database Permissions

## **Module 10: Auditing Data Access and Encrypting Data**

- Auditing Data Access in SQL Server
- Implementing SQL Server Audit
- Encrypting Databases

## **Module 11: Performing Ongoing Database Maintenance**

- Ensuring Database Integrity
- Maintaining Indexes
- Automating Routine Database Maintenance

## **Module 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

## **Module 13: Monitoring SQL Server 2014 by Using Alerts and Notifications**

- Monitoring SQL Server Errors
- Configuring Database Mail
- Configuring Operators, Alerts, and Notifications