

# ***Corso Updating Your Skills to SQL Server 2017***



**Durata:** 2 giornate

**A chi è rivolto:**

- The primary audience for this course is existing database professionals with experience of SQL Server 2016 who want to update their skills to SQL Server 2017.
- The secondary audience is existing SQL Server 2016 MCSAs who want to prepare for the Upgrade exam for SQL Server 2017 certification.

**Scopo del corso:**

This two-day instructor-led course is aimed at database professionals looking to update their skills to cover SQL Server 2017.

At course completion

After completing this course, students will be able to:

- Describe key capabilities and components of SQL Server 2017
- Describe new and enhanced features in SQL Server Performance, Availability, and Scalability
- Describe new and enhanced features in SQL Server data access
- Describe new and enhanced features in SQL Server reporting and BI
- Describe new and enhanced features in SQL Server OLAP
- Describe new and enhanced data analytics features
- Describe new and enhanced features in SQL Server Cloud deployments
- Describe SQL Server on Linux functionality



Scheda corso "MOC10998 Updating Your Skills to SQL Server 2017"  
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Ogni corso è personalizzabile in base alle vostre esigenze.

### **Prerequisiti:**

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Experience of building and managing database, data warehouse, and business intelligence (BI) solutions with SQL Server 2016.
- Familiarity with the Windows Server 2016 operating system and networking.
- Familiarity with Microsoft Office 2016.

### **Contenuti:**

#### **Module 1: Introduction to SQL Server 2017**

Module Goal: Describe key capabilities and components of SQL Server 2017

Lessons

- Overview of SQL Server 2017
- Functionality across versions

After completing this module, students will be able to:

- Describe the edition scale limits
- Explain the consistent functionality across versions

#### **Module 2: What's new in SQL Server Performance, Scalability, and Availability.**

This module introduces the performance enhancements provided by Adaptive Query Processing and Automatic Tuning, as well as the scalability and availability enhancements provided by new Availability Group architectures, including Read-Scale Availability Groups and Availability Groups with SQL Server on Linux

Lessons

- Adaptive query processing
- Automatic tuning
- Availability Scalability

Lab : Performance and availability – adaptive query processing • Interleaved execution

- Batch mode memory grant feedback
- Batch mode adaptive joins

After completing this module, students will be able to:

- Describe adaptive query processing
- Describe automatic plan correction
- Describe availability group architectures
- Describe always on availability groups for Linux
- Describe load balancing of readable secondary replicas
- Describe petabyte-scale data warehousing

### **Module 3: What's New in SQL Server data Access**

SQL Server 2017 introduces SQL Graph which enables you to define the relationships between your data items in a table rather than calculating them during a query, reducing the query cost and simplifying your data structure.

Lessons

- SQL Graph

Lab : SQL Graph • Create a Graph database

- Query a Graph database

After completing this module, students will be able to:

- Describe SQL Graph

### **Module 4: What's new in SQL Server Reporting and BI**

This module describes what's new in SQL Server reporting and BI.

Lessons

- Power BI report Server
- Reporting Services update

Lab : Reporting and BI • Deploy Power BI report server

- Add commenting to a report

After completing this module, students will be able to:

- Explain what Power BI report server is
- Use Power BI report server
- Create a Power BI report for Power BI report server

## **Module 5: New and Enhanced Features in SQL Server Analysis Services**

This module introduces new and enhanced features in SQL Server Analysis Services, with particular emphasis on the tabular data model

.Lessons

- Tabular model updates

Lab : Ragged hierarchies •View existing reports

- Hide blank members

After completing this module, students will be able to:

- Describe the new features of tabular data models

## **Module 6: New and Enhanced data Analytics Features**

This module introduces new and enhanced data analytics features.

Lessons

- New and enhanced data analytics features

Lab : Data analytics with Python •Enable external script execution

- Run Python scripts

After completing this module, students will be able to:

- Describe the new and enhanced data analytics features.

## **Module 7: What's new in SQL Server in the Cloud**

Organizations want the best value from a mixture of cloud services and their existing investment in on-premises hardware and software. This module covers a comparison between the features of Microsoft Azure SQL Database and Microsoft SQL Server 2017, as well as new features that make it easier for you to migrate databases from on-premises SQL Server instances to Azure SQL Database.

Lessons

- Azure SQL database features
- Managed Instances

Lab : Managed instancesAfter completing this module, students will be able to:

- Explain the different features available in Azure SQL database and SQL Server 2017
- Describe Azure managed instances



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## Module 8: SQL Server on Linux

This module covers the features of SQL Server on Linux, as well as the process for deploying SQL Server on Linux and using Docker.

Lessons

- SQL Server on Linux
- Deploying SQL Server on Linux

Lab : SQL Server in Docker containers •Deploy a SQL Server Docker image

- Run a SQL Server instance inside a Docker container
- Connect to a SQL Server Instance running in a Docker container

After completing this module, students will be able to:

- Describe the features of SQL Server on Linux
- Describe SQL Server on Linux deployment
- Deploy SQL server in a Docker container