

## SQL Server for .NET Application Developers (SQL04)

**ID** SQL04 **Price** 2,390.— €(excl. tax) **Duration** 3 days

### Course Overview

Become a full stack developer. This course teaches you the essential basics and skills that will help you as a .NET developer to build more stable, faster, and secure solutions using SQL Server.

### Who should attend

Application developers, .NET specialists and software developers

### Prerequisites

Programming knowledge

### Course Objectives

You know the basics of the various Windows databases and learn how to develop stable, secure applications in SQL Server 2019.

### Course Content

#### Basics

- Repetition of the database basics
- Various database types and products
- Database design
- Software Architecture
- NoSQL databases

#### SQL

- Repetition interrogation techniques
- Stored Procedures in TSQL und C#
- SQL Server as .NET runtime environment

#### Database access techniques

- Transactions
- Entity Framework
- Other OR/Mapper

### Tooling

- SQL Server Management Studio
- Visual Studio / Data Tools
- tips and tricks
- ALM in applications (FTS)

### Database

- The main administrative points
- DB interfaces (views, stored procedures, ...)
- Data quality
- Monitoring
- Operation

### Performance und Security

- Performance measurements/analysis

### Performance improvements

- Indexe
- Administratives
- Query optimizations
- Infrastructure Aspects
- In-memory techniques

### Brief introduction of new techniques in SQL Server 2019

- Big Data
- Data Science
- AI

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