# **MS SQL Server**

Course Introduction







**Software University** 

https://softuni.bg/

**SoftUni Team Technical Trainers** 



#### Have a Question?





# #csharp-db

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#### **SoftUni Diamond Partners**



















THE CROWN IS YOURS









#### **C# Database Fundamentals Module Goals**



- Basic Database and Query Concepts
- Content: SQL syntax, Data types, Programmability
- ADO.NET Library
- ORM Fundamentals
- Entity Framework Core
- Automapper Library and
- Best Practices and Architecture
- Workshop



### **Course Objectives**



- DB Intro, Data Definition and Data Types
- Basic CRUD, Intro to SQL
- Built-in functions with T-SQL
- Data Aggregation
- Table Relationships
- Subqueries and Joins
- Database Programmability



#### **Practical Programming Exam**



12 practical problems for 4 hours

- DDL
- DML
- Querying
- Programmability
- Automated judge system
  - http://judge.softuni.bg
- Solutions are evaluated for correctness only
  - Code quality is still not measured

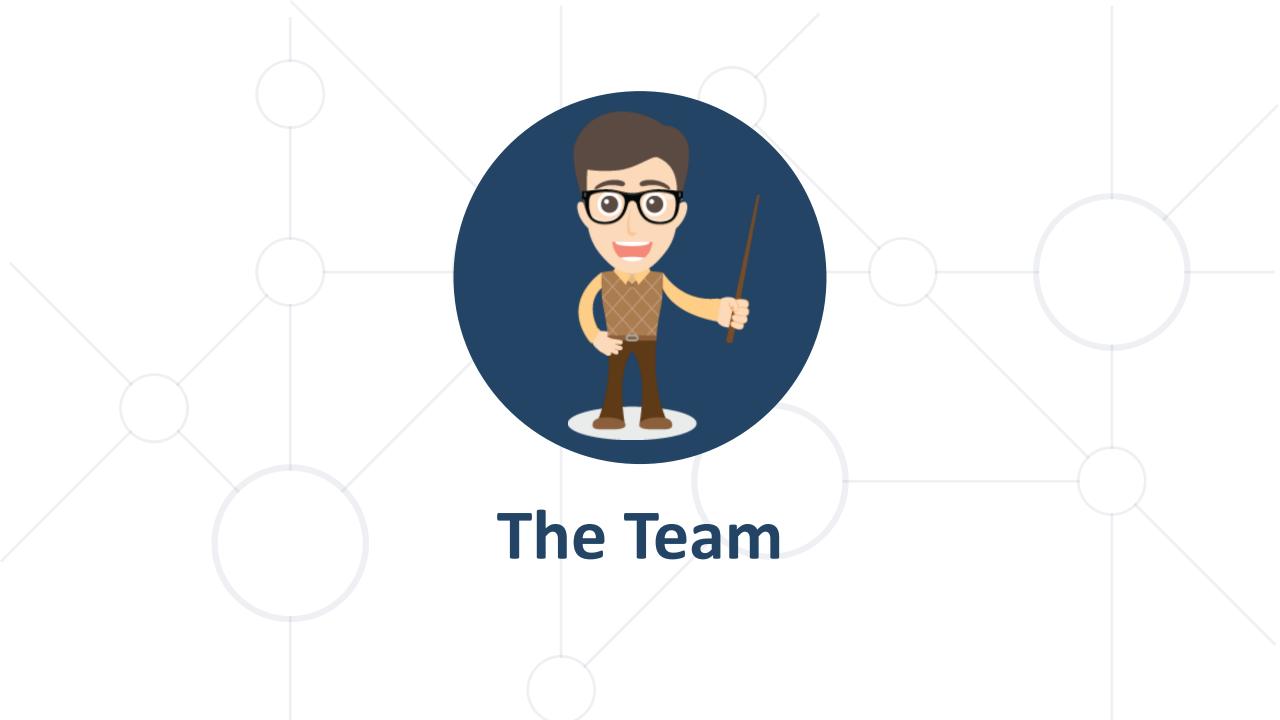


#### **Theoretical Exam**



- You will have 30 minutes once you enter
  - English
- Automated quiz system
- Available during the practical exam and 30 minutes after it
  - You can submit your answers just one time





#### **Stamo Petkov**



- Head of Department
  - @ Information Services Plc.
- Worked with various technologies
  - NET and C#, BASIC, Pascal, Object
    Pascal, PHP
- 20+ years of experience
- Experienced Lecturer
  - C# and ASP.NET Core @ Softuni



# Kristiyan Ivanov



- Programming experience from 7 years
- Embedded C/C++ Software Engineer @
  Visteon Bulgaria
- Completed the C# and JavaScript path@ SoftUni
- Develops web projects in C# and Embedded Systems in C/C++
- Involved in PCB Design





#### C# Database Fundamentals Module – Timeline



07-Jan-2025

09-Feb-2025 11-Feb-2025

01-Apr-2025 08-Apr-2025 14-Apr-2024

**MSSQL** 

5 weeks \* 4 times / week 9 credits

Start: 07-January-2025

Regular Exam: 09-Feb-2025

**Theoretical Exam: 09-Feb-2025** 

**Entity Framework Core** 

7 weeks \* 4 times / week 15 credits

Start: 11-Feb-2025

Final Exam: 01-Apr-2025

**Theoretical Exam: 01-Apr-2025** 

Retake

**MSSQL** 08-Apr-2025

**EF Core** 14-Apr-2025

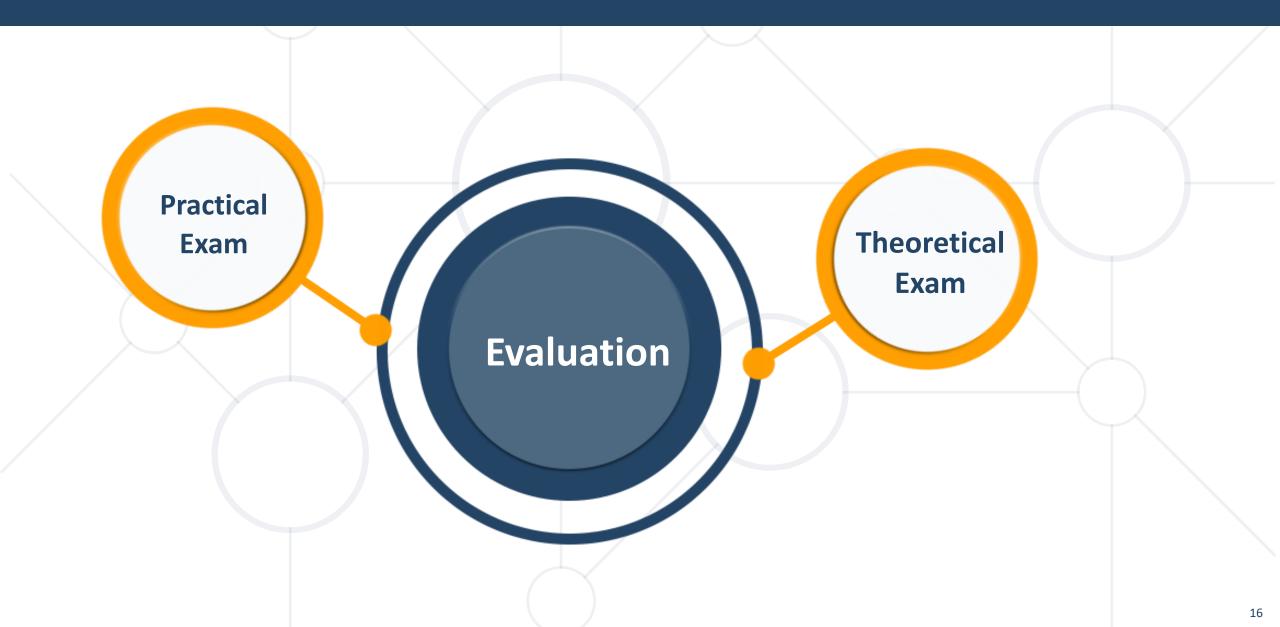
# **SoftUni Certificate**





# **CPE Certificate**





### **Homework Assignments & Exercises**



- Your homework is mainly work in class
  - Lesson days → slides + live demos + exercises
  - Exercise days → only exercises
- How to submit your homework?
  - Submitted in the judge system
- Do your homework when it's due
  - Assignments pile up quickly



#### **Learn to Search in Internet**



- The course assignments require to search in Internet
  - This is an important part of the learning process
  - Some exercises intentionally have no hints



- Software development includes everyday searching and learning
- No excuses, just learn to study!
- Developers learn new technologies, tools, languages every day!



#### **Course Web Site and FB Group**



Official web site:

https://softuni.bg/trainings/4841/ms-sql-january-2025

Official Facebook group:

https://www.facebook.com/groups/csharpdbjanuary2025







# Questions?



















# Trainings @ Software University (SoftUni)



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  Profession and Job for Software Developers
  - softuni.bg, about.softuni.bg
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