

MS SQL Server

Course Introduction



SoftUni Team

Technical Trainers



SoftUni

Software University

<https://softuni.bg/>

Table of Contents

1. Course Objectives
2. Training and Team
3. Course Organization
 - Course Infrastructure
 - Evaluation Criteria



sli.do

#csharp-db

SoftUni Diamond Partners

**SUPER
HOSTING
.BG**



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Bulgaria**

 **Flutter**TM
International

INDEAVR
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AMBITIONED

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KINGS**



BOSCH

 **Postbank**
Решения за твоето утре

 **PHAR
VISION**



SmartIT

DXC
TECHNOLOGY

createX




Course Objectives

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





The Team

- **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# Basics and ASP.NET Core @ Softuni**



- **Experienced C# Developer:**
 - Over 12 years of experience in the IT industry.
 - Specialized in creating and implementing high-performance solutions for corporate clients.
- **Professional Background:**
 - DXC Technology
 - Hewlett Packard Enterprise
 - HP
- **Successfully completed projects for prestigious clients:**
 - E.ON, BMW, MEWA, Swedavia





Course Organization

C# Database Fundamentals Module – Timeline





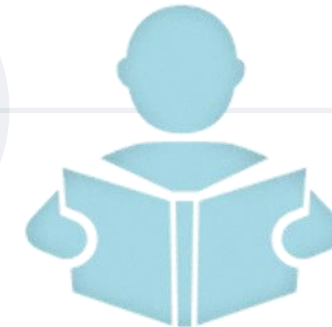


Homework Assignments & Exercises

- 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



- The course assignments require to **search in Internet**
 - This is an important part of the learning process
 - Some exercises intentionally have no hints
- Learn to find solutions!
 - Software development includes **everyday searching and learning**
 - No excuses, just **learn to study!**
 - Developers learn new technologies, tools, languages every day!



Course Web Site, Forum and FB Group

- Official web site:

<https://softuni.bg/trainings/4182/ms-sql-september-2023>

- Official discussion forum:

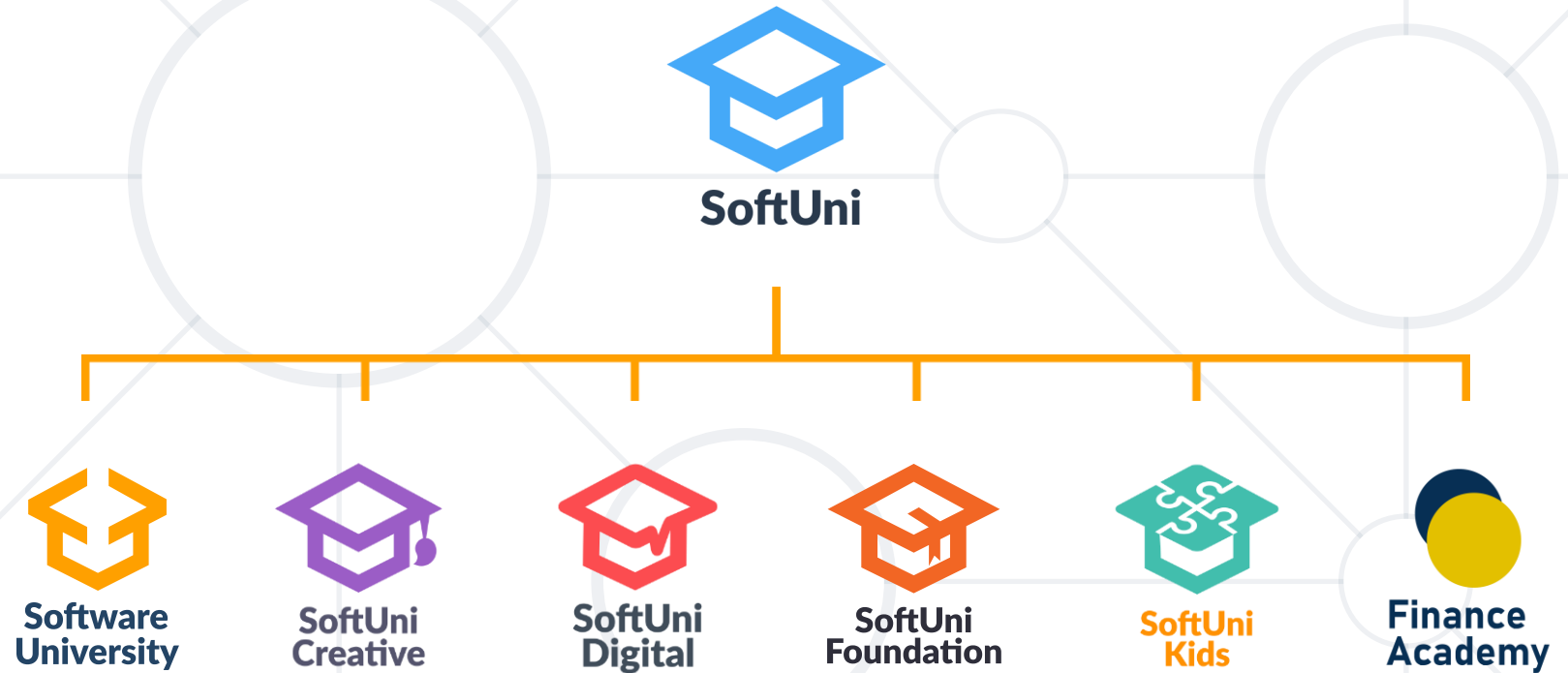
<https://softuni.bg/forum/categories/63/module-csharp-db>

- Official Facebook group:

<https://www.facebook.com/groups/CsharpDBSeptember2023>



Questions?



- Software University – High-Quality Education, Profession and Job for Software Developers

- softuni.bg, about.softuni.bg

- Software University Foundation

- softuni.foundation

- Software University @ Facebook

- facebook.com/SoftwareUniversity

- Software University Forums

- forum.softuni.bg



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