

Databases Advanced

Course Introduction



SoftUni Team
Technical Trainers
Software University
<http://softuni.bg>

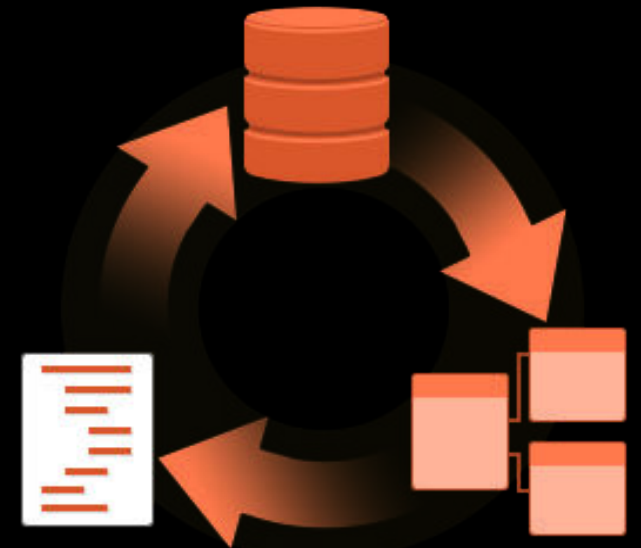
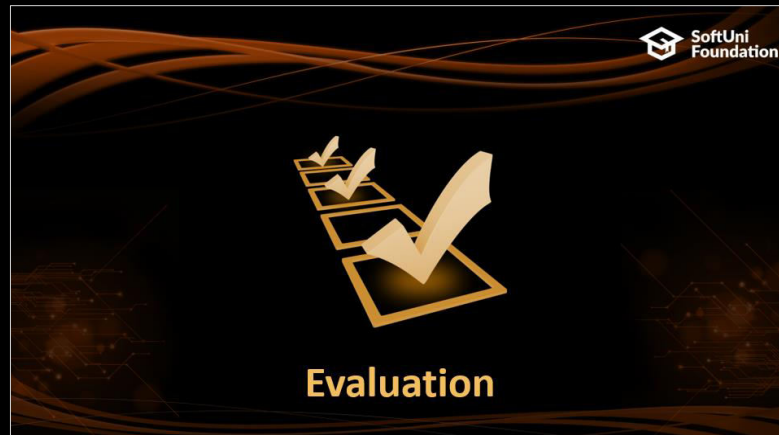


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#JavaDB

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Databases Advanced

Course Objectives & Program

Course Objectives

- The **Databases Advanced** course covers
 - Connecting to local DB instance
 - ORM, Hibernate and Spring Data
 - Code-First implementations
 - Programming Patterns
 - Working with data in other formats (XML, JSON)



Course Topics

- Introduction to DB Applications
- Creating Custom ORM Framework
- Introduction to Hibernate
- Entity Relations in Hibernate
- Introduction to Spring Data



Course Topics (2)

- Spring Data Advanced Querying
- Spring Data Auto Mapping Objects
- JSON Processing
- XML Processing
- Creating Large DB
- Exam Preparations





The Trainers Team

Trainers Team

■ Irina Naskinova

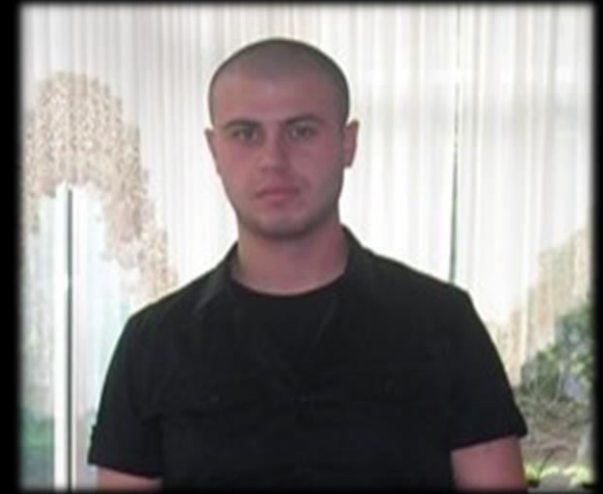
- Experience in Java Development
 - Experience with companies such as ProSyst, Seeburger, Proxiad, HPE ...
- Cloud Automation Engineer @ DXC Technology
- Teacher at Sofia University
- Teacher at Cardiff Metropolitan University (Sofia campus)



Trainers Team (2)

■ Ivan Ivanov

- Java Developer @ Codexio
- Top performing student from the Software University
- Develops APIs and Libraries in his spare time
- Interests in back-end web development, Spring, Vert.x and Java Technologies in general





Databases Advanced

Course Details and Schedule

Training Duration and Schedule

- Lessons: ~ 50 hours (onsite + YouTube videos)
- Practical exercises (in class): ~ 60 hours
- Homework: ~ 0-60 hours
- Time frame
 - 26 February 2018 – 22 April 2018



Why English?

- Why are the slides in English?
 - **English** is the native language of the software engineers
 - Specific terminology should be in English
 - Translations are inaccurate and funny
- Just **learn English!**
 - No excuses



Your RFID Chip

1. Students can either
 - Take **RFID chip** from SoftUni
 - Or use their own chip / card (125 KHz)
2. Register your chip number in your SoftUni profile:
<https://softuni.bg/users/profile/show>
3. Check-in at the reception every time when you come in SoftUni
4. See your last visits in your profile:
<https://softuni.bg/users/profile/show>





Evaluation

Scoring System for the Course

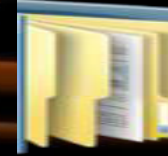
- **Mandatory:**
 - Final exam – 90%
 - Exercises & Homework (+ Checks) – 10%
- **Bonuses:**
 - Presence in class – 5% bonus
 - Forum activity – bonus up to 5%



Homework Assignments & Exercises

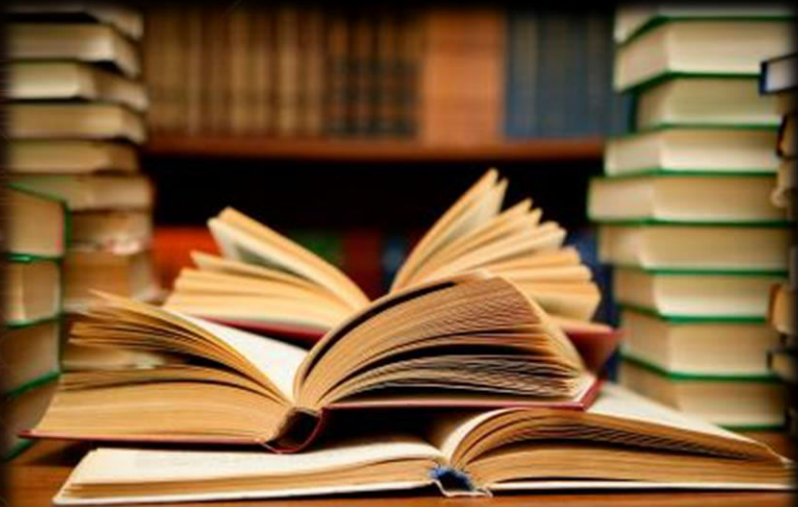
- Course **activities!**
 - Lesson days → slides + live demos
 - Exercise days → only exercises
- How to **submit** your homework?
 - Submitted on the **course page** in **softuni.bg**
- Do your homework when it's due!
 - Assignments pile up quickly



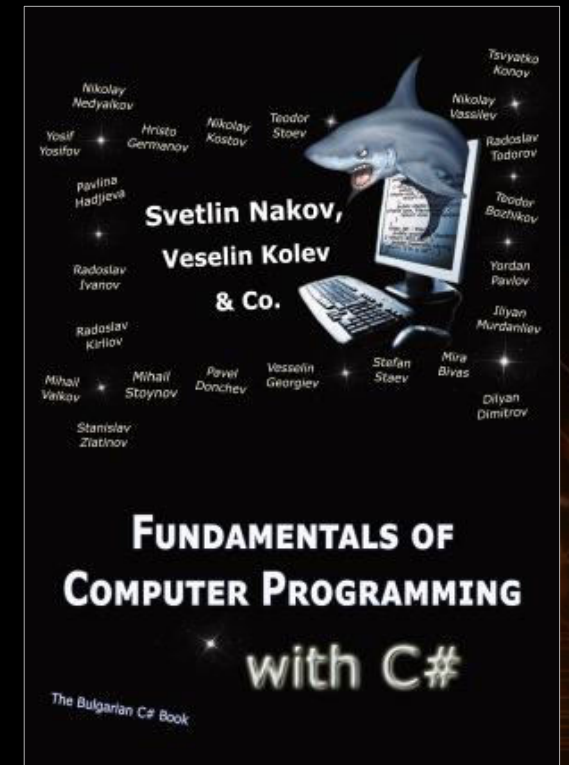


Resources

What We Need Additionally?



WIKIPEDIA
The Free Encyclopedia



C# Course Web Site, Forum and FB Group

- Official web site:

softuni.bg/courses/databases-advanced-hibernate



- Official discussion forum:

softuni.bg/forum/categories/78/Databases-Advanced-Hibernate



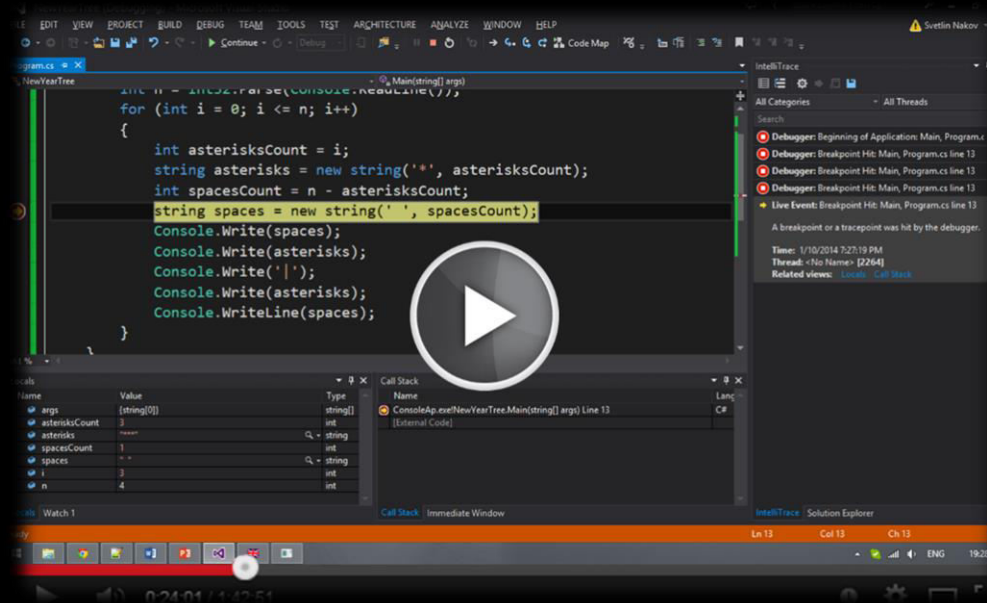
- Official Facebook groups:

fb.com/groups/SoftUniJavaDBFundamentalsJanuary2018/



The Databases Basics Slides and Videos

- All lecture slides, videos, exercises, projects and other resources are open content, available for free
- Visit the course web site to access the course resources



Recommended Software

- Software needed for this course:
 - MySQL Server & Workbench | [HeidiSQL](https://dev.mysql.com/downloads/mysql/)
<https://dev.mysql.com/downloads/mysql/>
 - IntelliJ IDEA – <https://www.jetbrains.com/idea/?fromMenu>
 - [Hibernate](#) and [Spring Data](#)



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
- 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!



Introduction to Databases



Questions?

License

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