MySQL

Course Introduction

SoftUni Team

Technical Trainers

Software University

SoftUni

Software University

https://softuni.bg

sli.do

#java-db

SoftUni Diamond Partners

Table of Contents

1. Course Objectives & Program

2. The Trainers Team

3. Course Organization

   ▪ Homework

   ▪ Exam

4. Resources

Database Basics

Course Objective & Program

Course Objectives

- The **MySQL** course provides

  - Basic database and query concepts

  - Establishes fundamentals for further DB trainings

  - Content: SQL syntax, data types, programmability

- What is **NOT** covered?

  - Client-side implementations

  - API Libraries

Course Topics

- Introduction to Databases. Data Definition and Datatypes

- Basic CRUD, intro to SQL

- Built-in functions

- Data aggregation

- Table Relations

- Subqueries and JOINs

- Functions, Triggers, Transactions

The Trainers Team

Nikolay Bankin

- Top performing student from the Software University (2014)

- **10 years** of programming experience

- Teacher at **TUES**

- Expirienced with **Java**, **Scala**, **JavaScript** and other platforms and technologies.
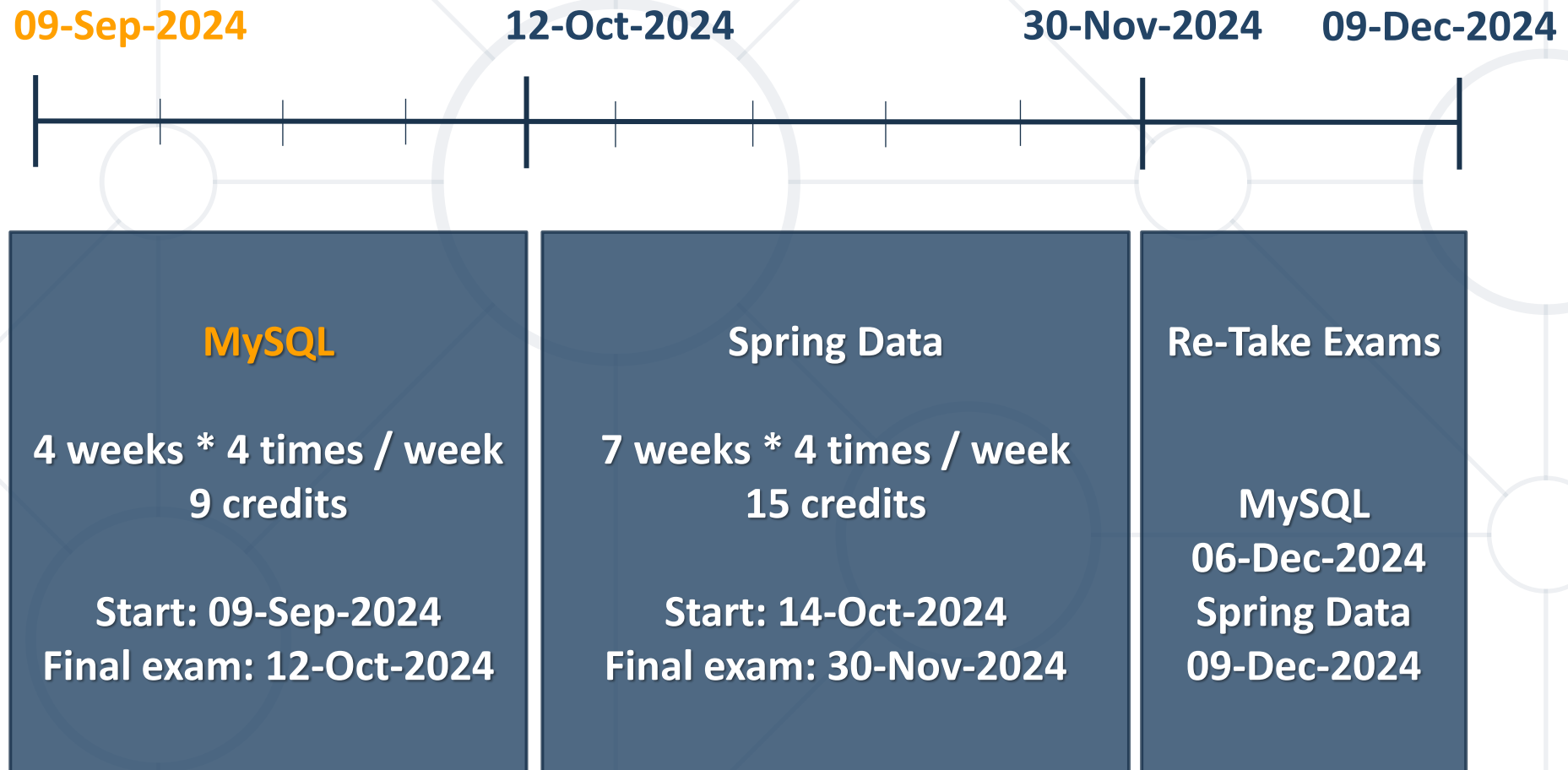
Konstantin Mitev

- Software Engineer @ **FlutterInternational**

- Technical Trainer @ **SoftUni**

- **6 years** of programming experience

- Graduated in **Java** and **JavaScript** professions

- Experience in **React JS**

- Also experienced in the role of **Team Lead**

Course Organization

Java DB Module – Timeline

09-Sep-2024　　　　　　　12-Oct-2024　　　　　30-Nov-2024　　09-Dec-2024

MySQL	Spring Data	Re-Take Exams
4 weeks * 4 times / week 9 credits Start: 09-Sep-2024 Final exam: 12-Oct-2024	7 weeks * 4 times / week 15 credits Start: 14-Oct-2024 Final exam: 30-Nov-2024	MySQL 06-Dec-2024 Spring Data 09-Dec-2024

SoftUni Certificate

Practical Exam 100%

Evaluation

Homework 5%

CPE Certificate

Practical Exam

Evaluation

Theoretical Exam

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

Exam

- Section 0: **Database Overview**

    - You are given an Entity / Relationship Diagram of some Database

- Section 1: **Data Definition Language (DDL)**

    - Data Types, Constraints

- Section 2: **Data Manipulation Language (DML)**

    - Insert, Update, Delete

Exam

- Section 3: **Querying**
  - Data Extraction
- Section 4: **Programmability**
  - Functions and Procedures

Resources

What We Need Additionally?

Java DB Course Web Site and FB Group

- Official website:

  https://softuni.bg/trainings/4709/mysql-september-2024

- Official Facebook group:

  https://www.facebook.com/groups/javadbseptember2024/

The DB Basics MySQL Slides and Videos

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

Java DB Recommended Software

- Software needed for this course:
  - Microsoft Windows 10
  - Workbench - https://dev.mysql.com/downloads/workbench/
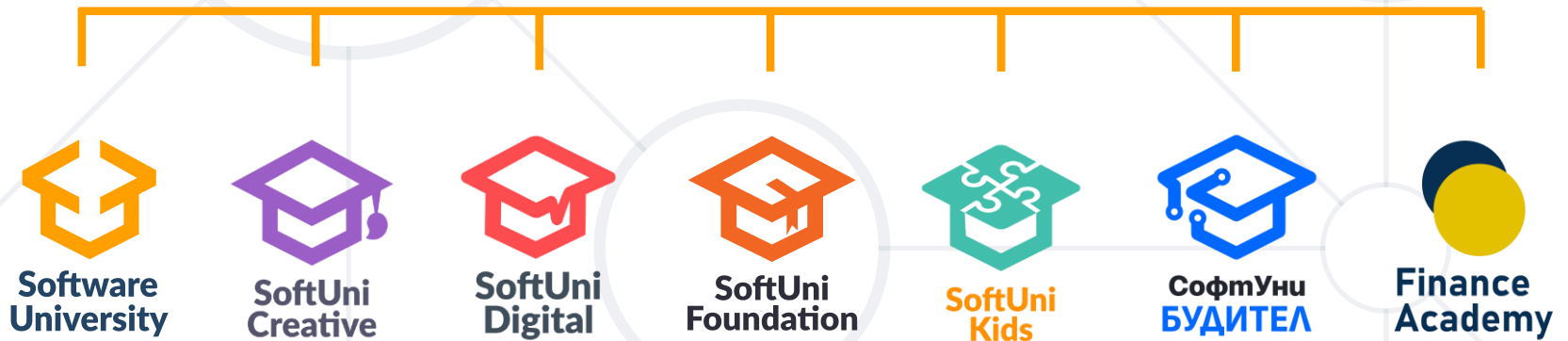
Learn to Search in Internet

- 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!

Questions?

Trainings @ Software University (SoftUni)

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- Software University Foundation
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