Database Basics - MySQL

Course Introduction

SoftUni Team

Technical Trainers

Table of Content

1. Course Objectives & Program

2. The Trainers Team

3. Course Organization

   ▪ Homework

   ▪ Exam

4. Resources

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#JavaDB

Database Basics
Course Objective & Program

Course Objectives

- The Database Basics 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

Trainers Team

Doncho Minkov

- Senior Full Stack Developer in SoftUni

- 10+ years in IT
  - 8+ years of experience as a Technical Trainer @ Telerik Academy
  - Front-end developer by heart
    - Software developer by need
- Experience with all popular mobile platforms
  - Android, iOS, Windows
- Fluent in Node.js, .NET, Angular, Java, C++
- "30 under 30" – Forbes 2017 - Education

Trainers Team

- **Radoslav Ivanov**

  - Technical Trainer @ SoftUni

  - Java Web Developer

  - Experience with MySQL and Hibernate

  - Interested in self-development and business
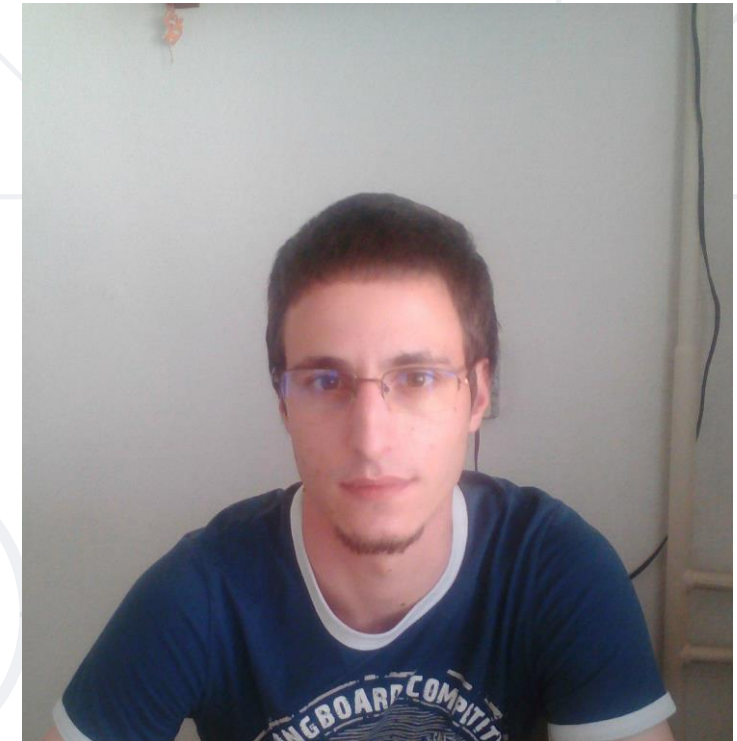
Course Organization

DB Fundamentals Module – Timeline

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17-Sept-2018   **22-Oct-2018**   **09-Dec-2018**

Database Basics - MySQL

5 weeks * 4 times / week
9 credits

Start: 17-Sept-2018
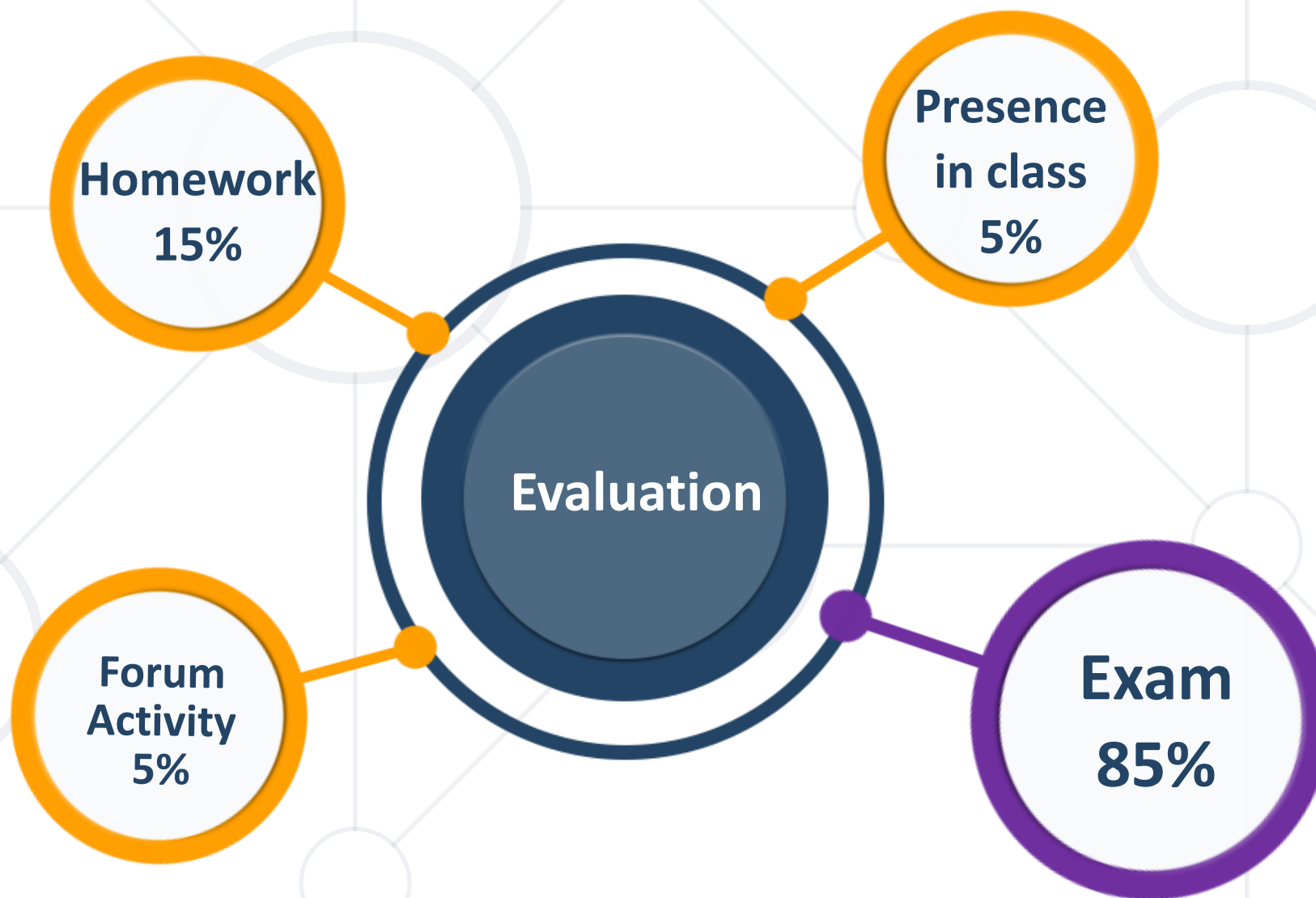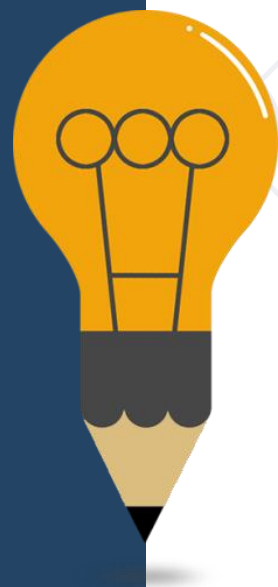Final exam: 21-Oct-2018

Database Advanced - Hibernate

7 weeks * 4 times / week
15 credits

Start: 22-Oct-2018
Final exam: 09-Dec-2018

Re-Take Exams

TBA

Scoring System for the Course

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Homework 15%

Presence in class 5%

Evaluation

Forum Activity 5%

Exam 85%

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

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- 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

- Section 3: **Querying**

  - Data Extraction

- Section 4: **Programmability**

  - Functions and Procedures

Resources
What We Need Additionally?

Java DB Course Web Site, Forum and FB Group

- Official web site:

  https://softuni.bg/trainings/2132/database-basics-mysql-september-2018/open

- Official discussion forum:

  https://softuni.bg/forum/categories/77/databases-basics-mysql

- Official Facebook groups:

  https://www.facebook.com/groups/SoftUniJavaDBFundamentalsJanuary2018/

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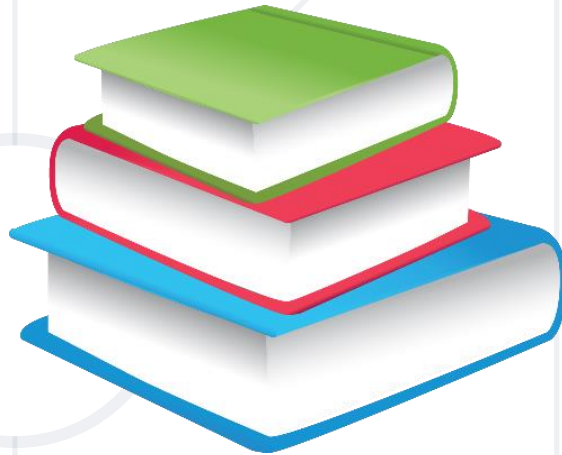
- All lecture slides, videos, homework assignments, projects and other resources are open content, available for free
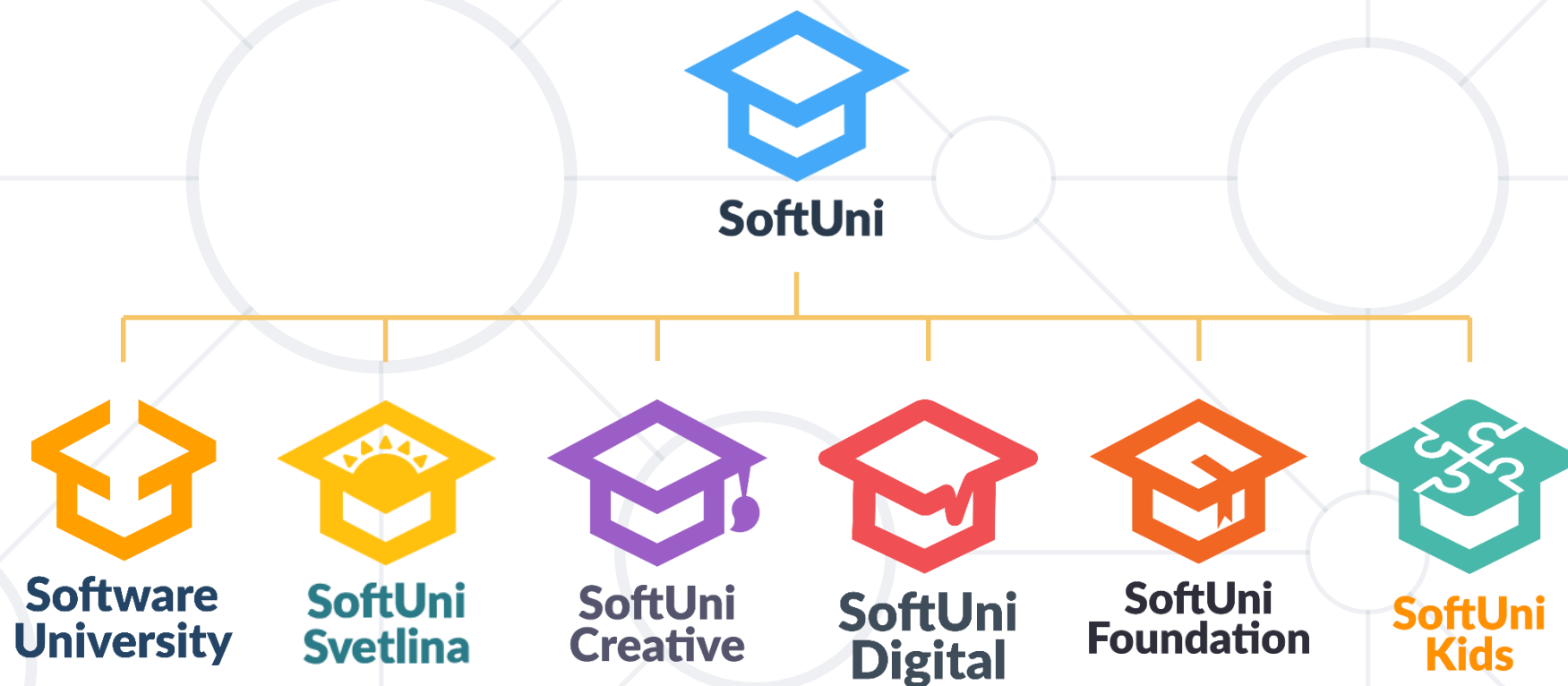 - Visit the course web site to access the course resources

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?

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https://softuni.bg/trainings/courses

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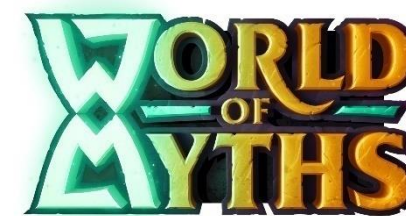
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Trainings @ Software University (SoftUni)

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