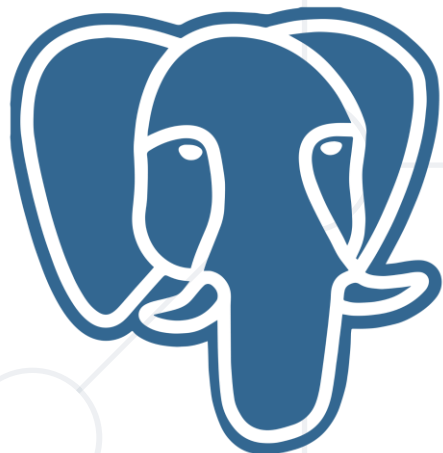


PostgreSQL

Course Introduction



PostgreSQL

SoftUni Team

Technical Trainers



SoftUni



Software University

<https://softuni.bg>

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#python-db

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Course Objective & Program

- The **PostgreSQL** course provides
 - Basic database and query concepts
 - Establishes fundamentals for further DB training
 - Content: SQL syntax, data types, programmability
- What is **NOT** covered?
 - Client-side implementations
 - API Libraries

- PostgreSQL Introduction. Data Types. Working with Tables
- Basic CRUD
- Built-in Functions
- Data Aggregation
- Table Relations
- Subqueries and JOINS
- Database Programmability and Transactions



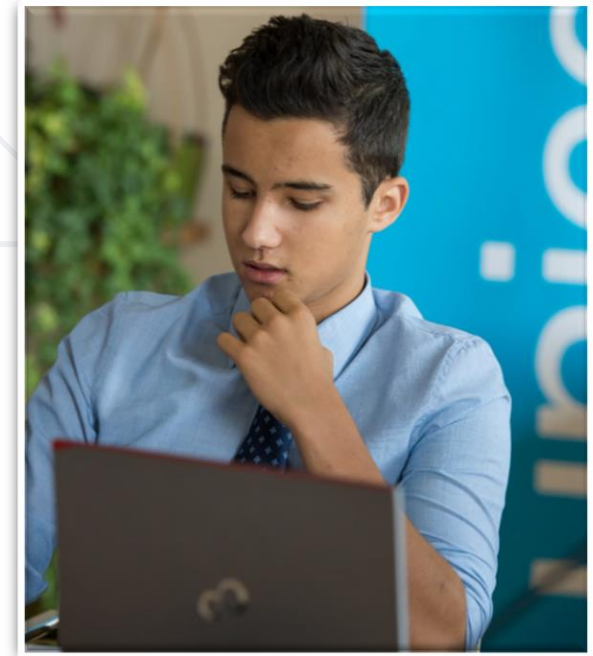


The Trainers Team

- 8+ Years of Experience in Industrial Automation and Machine Vision
- SoftUni Alumnus
- Python, C#, and others
- Successful Mutual Projects with Daimler, BMW, Reichle & De-Massari, Brose, ZF. EOLE, and others



- Full-Stack Python/JS Developer
- Fluent in Postgres, Python, Django, JS, HTML/CSS, React.js
- Student at NBU with Computer Science
- Interested in AI and Deep Learning

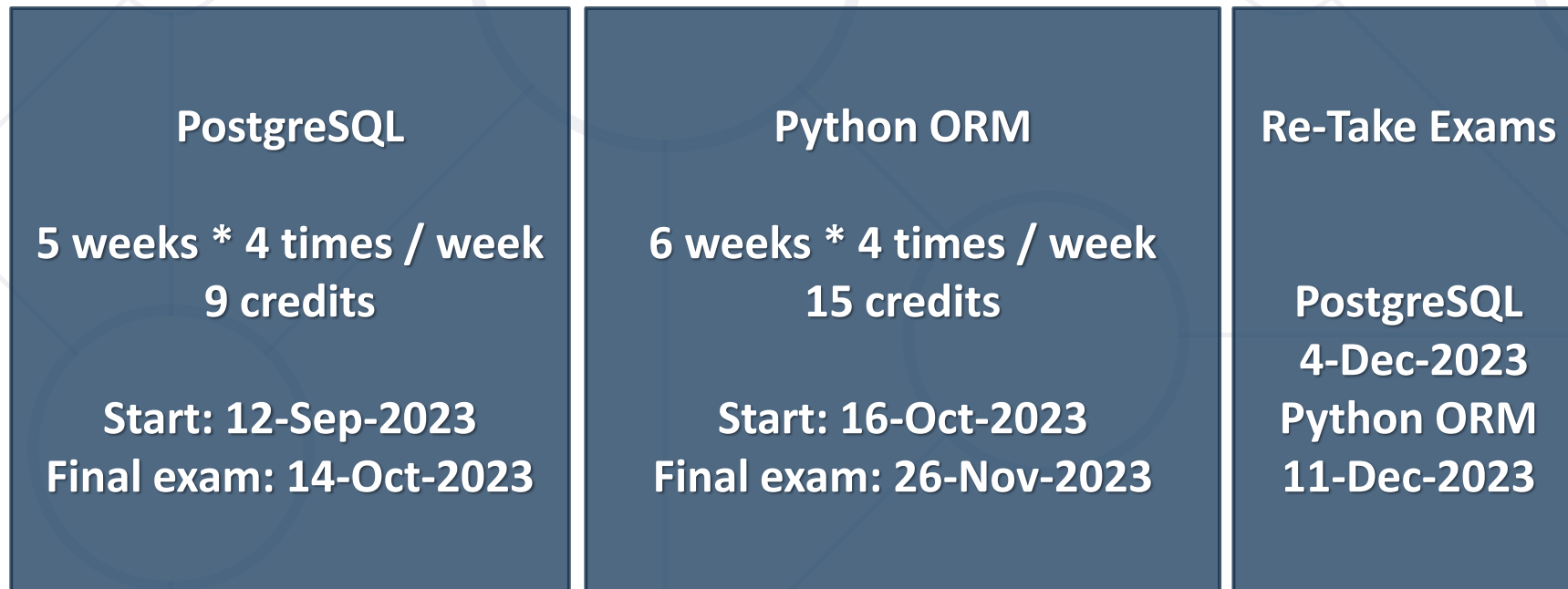




Course Organization

Python DB Module – Timeline

12-Sep-2023 14-Oct-2023 16-Oct-2023 26-Nov-2023 04-Dec-2023 11-Dec-2023



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



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







Resources

What We Need Additionally?

- Official Website:

<https://softuni.bg/trainings/4244/postgresql-september-2023>

- Official Discussion Forum:

<https://softuni.bg/forum>

- Official Facebook Group:

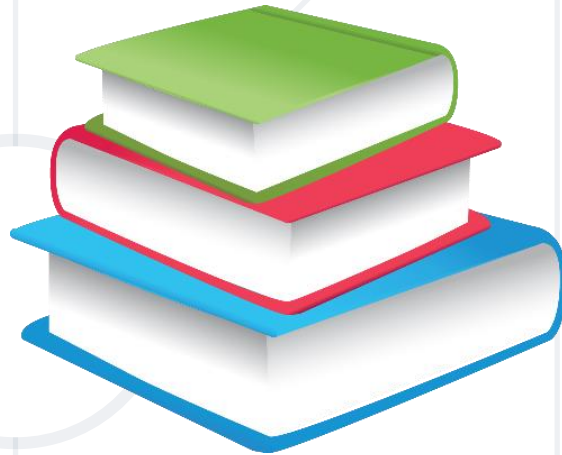
<https://www.facebook.com/groups/PythonDBSeptember2023>

- Python Community Facebook Group:

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



- All lecture slides, videos, homework assignments, projects and other resources are open content, available for free
 - Visit the course [website](#) to access the course resources

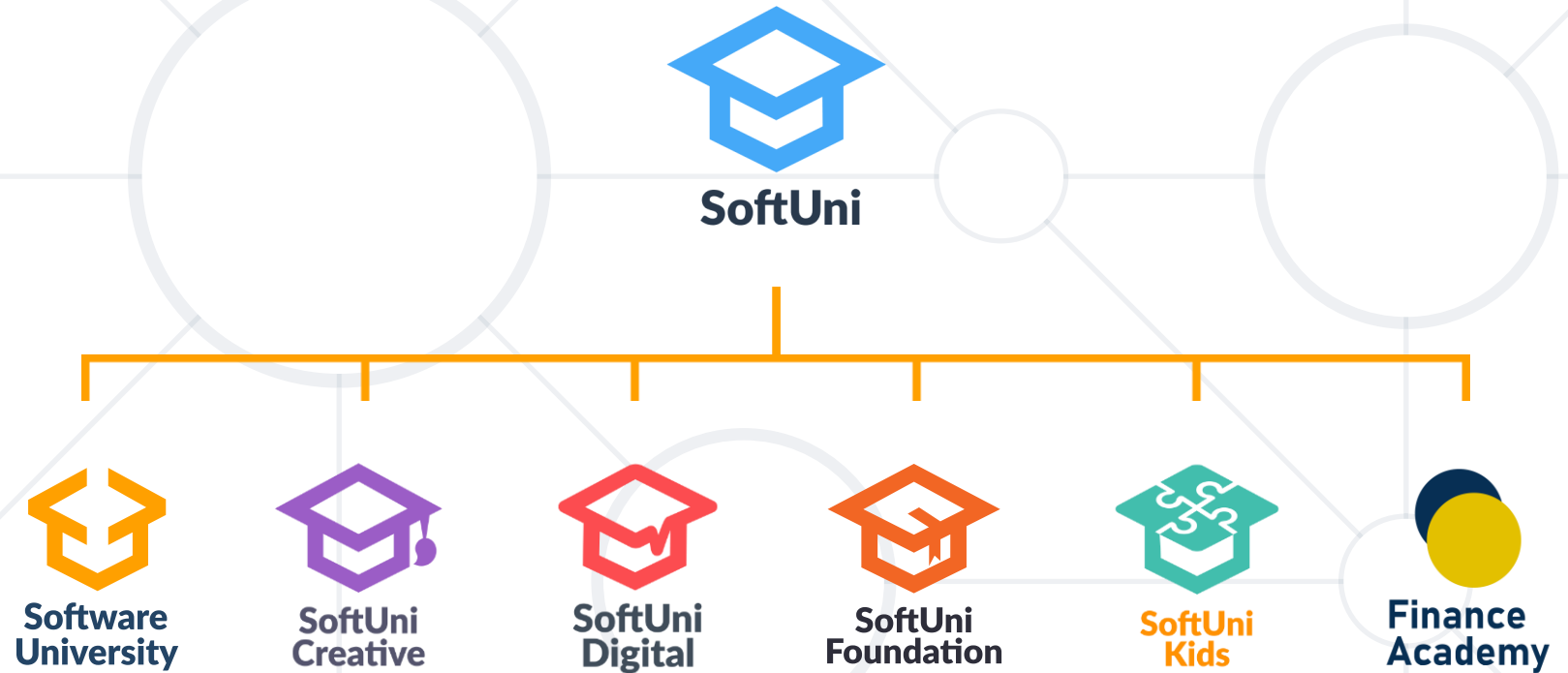


- Software needed for this course:
 - Use PostgreSQL and pgAdmin with Docker
 - [Docker Installation Guide](#)
 - [PostgreSQL and pgAdmin with Docker](#)
 - Install PostgreSQL and pgAdmin locally
 - [PostgreSQL](#)
 - [pgAdmin](#)

- 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?



- 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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