

Training: Python Academy SQLAIchemy



TRANING TERMS

2025-09-05 | 1 day | Warszawa / Virtual Classroom

TRAINING GOALS:

SQLAIchemy is THE object relational mapper used in the Python world. It provides a full suite of well known enterprise-level persistence patterns, designed for efficient and high-performing database access, adapted into a simple and Pythonic domain language.

This practical course will make sure you understand the concepts behind **SQLAIchemy**. We will focus on practical patterns of SQLAIchemy usage and see how its use can grow from very simple to more advanced.

CONSPECT:

- Getting known with SQLAlchemy
 - Drivers, connectors, engines, metadata, sessions, tables and mappers
- Simple SQL statements
- Simple ORM
 - Setting up an object relational mapping.
 - Experiment with object life cycle using plain SQLAlchemy or Declarative or Elixir.
- SQLAIchemy Philisophy
 - Usage patterns, documentations overview.
- Advanced statements
 - Examples of how to keep even advanced database usage reasonably simple with SQLAlchemy.
- ORM and Relations
 - $\,\circ\,$ Look at relations between mapped objects, and at the options both the database and SQLAlchemy offer.
- Advanced ORM
 - Experiment with non trivial mapping issues, such as inheritance, arbitrary selects and arbitrary relations. In this part we will also study the use of transactions in combination with the ORM.

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REQUIREMENTS:

- Basic knowledge of **Python** and **object oriented programming** is required.
- If you don't know Python it is strongly recommended to take **Python for Programmers** before this course.
- $\circ\,$ Basic knowledge of SQL is necessary.

Difficulty level

CERTIFICATE:

The participants will obtain certificates signed by Python Academy.

TRAINER:

Authorized Python Academy Trainer.

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