



SQLAlchemy 2.0 Documentation

Release: **2.0.52** **CURRENT RELEASE** | Release Date: August 11, 2026[Contents](#) | [Index](#) | [Download this Documentation](#)Search terms:

Getting Started

New to SQLAlchemy? Start here:

- **For Python Beginners:** [Installation Guide](#) - basic guidance on installing with pip and similar
- **For Python Veterans:** [SQLAlchemy Overview](#) - brief architectural overview

Tutorials

New users of SQLAlchemy, as well as veterans of older SQLAlchemy release series, should start with the [SQLAlchemy Unified Tutorial](#), which covers everything an Alchemist needs to know when using the ORM or just Core.

- **For a quick glance:** [ORM Quick Start](#) - a glimpse at what working with the ORM looks like
- **For all users:** [SQLAlchemy Unified Tutorial](#) - In depth tutorial for Core and ORM

Migration Notes

Users coming from older versions of SQLAlchemy, especially those transitioning from the 1.x style of working, will want to review this documentation.

- [Migrating to SQLAlchemy 2.0](#) - Complete background on migrating from 1.3 or 1.4 to 2.0
- [What's New in SQLAlchemy 2.0?](#) - New 2.0 features and behaviors beyond the 1.x migration
- [Changelog catalog](#) - Detailed changelogs for all SQLAlchemy Versions

Reference and How To

SQLAlchemy ORM - Detailed guides and API reference for using the ORM

SQLAlchemy Core - Detailed guides and API reference for working with Core

- **Mapping Classes:** [Mapping Python Classes](#) | [Relationship Configuration](#)
 - **Using the ORM:** [Using the ORM Session](#) | [ORM Querying Guide](#) | [Using AsyncIO](#)
 - **Configuration Extensions:** [Association Proxy](#) | [Hybrid Attributes](#) | [Mutable Scalars](#) | [Automap](#) | [All extensions](#)
 - **Extending the ORM:** [ORM Events and Internals](#)
 - **Other:** [Introduction to Examples](#)
- **Engines, Connections, Pools:** [Engine Configuration](#) | [Connections, Transactions, Results](#) | [AsyncIO Support](#) | [Connection Pooling](#)
 - **Schema Definition:** [Overview](#) | [Tables and Columns](#) | [Database Introspection \(Reflection\)](#) | [Insert/Update Defaults](#) | [Constraints and Indexes](#) | [Using Data Definition Language \(DDL\)](#)
 - **SQL Statements:** [SQL Expression Elements](#) | [Operator Reference](#) | [SELECT and related constructs](#) | [INSERT, UPDATE, DELETE](#) | [SQL Functions](#) | [Table of Contents](#)
 - **Datatypes:** [Overview](#) | [Building Custom Types](#) | [Type API Reference](#)
 - **Core Basics:** [Overview](#) | [Runtime Inspection API](#) | [Event System](#) | [Core Event Interfaces](#) | [Creating Custom SQL Constructs](#)

Dialect Documentation

The **dialect** is the system SQLAlchemy uses to communicate with various types of DBAPIs and databases. This section describes notes, options, and usage patterns regarding individual dialects.

[PostgreSQL](#) | [MySQL and MariaDB](#) | [SQLite](#) | [Oracle Database](#) | [Microsoft SQL Server](#)

[More Dialects ...](#)

Supplementary

- [Frequently Asked Questions](#) - A collection of common problems and solutions
- [Glossary](#) - Definitions of terms used in SQLAlchemy documentation
- [Error Message Guide](#) - Explanations of many SQLAlchemy errors

- [Complete table of of contents](#) - Full list of available documentation
- [Index](#) - Index for easy lookup of documentation topics

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flambé! the dragon and ***The Alchemist*** image designs created and generously donated by [Rotem Yaari](#).

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