



# TRAINING COURSE: MARIADB STANDARD DEVELOPER

This course will help developers understand how to set up MariaDB and develop applications using MariaDB with their choice of the Java, R2DBC, Node.js, Python, PHP, Perl, C/C++ or .NET programming languages. Developers will gain hands-on experience via lab exercises that explore how to use native and non-native MariaDB connectors to access MariaDB databases, manipulate and extract data, run queries efficiently and handle errors.

## COURSE HIGHLIGHTS

Students will learn a wide range of skills for developing applications using MariaDB, including the following:

- Describe the client/server architecture of MariaDB
- Understand the most commonly used storage engines in MariaDB, such as InnoDB, Xpand, ColumnStore, Aria, S3, MyRocks and Spider
- Invoke MariaDB client programs and describe both the native and non-native connectors that provide connectivity for client programs
- Perform basic administrative tasks such as creating users, enabling MariaDB server logs and bulk importing data
- Understand MariaDB schema objects, including temporal tables, built-in functions, stored procedures, sequences, flexible and invisible columns, views, triggers and events
- Describe and use common table expressions and window functions
- Evaluate data types and character sets
- Explain the purpose of data modeling and database design
- Secure MariaDB using data-in-transit encryption and best practices for network and server security
- Use SQL statements to retrieve and modify the contents of database tables
- Write multiple-table queries and use nested queries in SQL statements
- Describe the concept of joining tables and list the types of joins
- Understand database compatibility enhancements such as PL/SQL support
- Access JSON data in a document store
- Program with MariaDB connectors to access data, handle errors and run queries efficiently from applications written in both native and non-native MariaDB connectors
- List the various metadata access methods available, and retrieve metadata

**Formats:** In person, live virtual or on-demand course

**Length:** 3 days (6.5-hour sessions); self-paced for on-demand course

### Prerequisites:

- Basic MariaDB skills
- Familiarity with database fundamentals
- Experience developing simple applications in a programming language such as Java, R2DBC, Node.js, Python, PHP, Perl, C/C++ or .NET

### Recommendation:

- Prior experience with MariaDB

## LIVE LEARNING: ONLINE AND ON-SITE

MariaDB offers flexible training options so your team can learn the way that works best for them: online or on-site. The most popular option is the virtual classroom, where the course is delivered in a live virtual setting using technology such as Zoom. An instructor will speak during the class through an audio feed and will share screens on their computer, including a slide presentation and a terminal window. Students can interact with the instructor and other students via a text-chat interface and through their audio feeds. A copy of the slide presentation and lab exercises workbook will be provided so students may annotate them during class.

## READY TO START LEARNING?

[Register now](#) or [contact us to schedule an in-person class](#).

## [mariadb.com](https://mariadb.com)

Americas: [sales-AMER@mariadb.com](mailto:sales-AMER@mariadb.com)  
Europe, Middle East, Africa: [sales-EMEA@mariadb.com](mailto:sales-EMEA@mariadb.com)  
Asia Pacific: [sales-APAC@mariadb.com](mailto:sales-APAC@mariadb.com)

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