



# MySQL for Developers

## Learn to

- Program with Connectors
- Write console and web applications
- Optimize query performance
- Write stored routines and triggers
- Store, access, and analyze geospatial data
- Use X DevAPI to access JSON data in document store

## Objectives

- Create MySQL client programs in PHP, Java, and Python using Connectors
- Use prepared statements to execute similar queries with different parameters
- Protect against SQL injection using prepared statements
- Interpret and handle errors and warnings
- Create database-driven web applications
- Work with views
- Manipulate string data with functions and operators
- Use temporal and numeric functions in expressions
- Use transactions to group multiple SQL statements into an atomic operation
- Identify and optimize poorly performing queries



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- Write stored routines, triggers, and scheduled events
- Collect and summarize data to create reports
- Store spatial and JSON data using MySQL native data type
- Query and manipulate spatial and JSON data using functions and operators
- Store JSON documents using MySQL Document Store
- Use X DevAPI to access document store and relational data

## Topics

- Introduction to MySQL
- Connectors and APIs
- Using Connectors
- Prepared Statements
- Handling Errors and Warnings
- Building Database-Driven Web Applications
- Tables and Views
- Working with Strings
- Working with Numeric and Temporal Data
- Transactions
- Optimizing Queries
- Stored Routines
- Triggers and Scheduled Events
- Reporting
- Spatial Data



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- JSON Data
- Document Store
- NoSQL
- Conclusion