

MySQL Fundamentals (D90871)

ID D90871 Preis 1.800,- € (exkl. MwSt.) Dauer 4 Tage

Kursüberblick

The MySQL Fundamentals training is the first step in mastering MySQL, the world's most popular open source database. Develop solid understanding and practical experience using relational databases, SQL and the MySQL Server and tools.

Learn To:

- Explain the relational database model.
- Describe the features and benefits of MySQL.
- Install and configure the MySQL server and clients.
- Design efficient databases.
- Use Structured Query Language (SQL) to build your database and query data.
- Employ appropriate MySQL tools.

Benefits to You

This course will teach you everything you need to know to start using the incredibly popular MySQL database in your Web, Cloud and embedded applications. In learning about MySQL you will also gain an understanding of relational databases in general, learning how to design your database so it's robust and efficient. Furthermore, you will harness that power by learning SQL and using it to build databases, populate them with data and query that data through extensive hands-on practices.

Manage Your MySQL Database

In addition to covering core concepts, this course introduces you to more advanced tools and techniques to help you manage your MySQL database and data. At the end of the course, you will be confident in your ability to use the MySQL database and put your new skills to work.

Zielgruppe

- Application Developers
- Database Administrators
- Database Designers
- Developer

Voraussetzungen

Required Prerequisites:

- Basic computer literacy

Suggested Prerequisites:

- Previous experience with any command-line program
- Knowledge of database concepts

Kursinhalt

- Introduction to MySQL
- MySQL Server and Client
- Database Basics
- Designing Your Database
- Data Types
- Creating Databases and Tables
- Modifying Databases and Tables
- Querying Table Data
- Modifying Table Data
- Functions
- Joining Tables
- Conclusion

Detaillierter Kursinhalt

Introduction to MySQL

- Course Goals
- Course Lesson Map
- Classroom Environment
- MySQL Overview
- MySQL Resources
- MySQL Training

MySQL Server and Client

- MySQL Client/Server Model
- MySQL Connectors
- Installation of the MySQL server
- Setting the root Password
- Starting and stopping the MySQL server
- Using the mysql client
- MySQL Workbench

Database Basics

- Basics of Relational Databases
- Spreadsheet Versus Database
- Entities and Relationships
- Relationship Categories
- SQL Language and MySQL
- SQL data definition language
- SQL data manipulation language

Designing Your Database

- Database Modeling
- Keys
- Normalization
- Database Design
- Viewing and Evaluating a Database

Data Types

- Data Types as Part of Database Design
- Numeric Data Types
- Temporal Data Types
- String Data Types
- Character Set and Collation Support
- Data Type Considerations
- The Meaning of NULL

Creating Databases and Tables

- Creating a Database
- Creating a Table
- Showing How a Table Was Created
- Column Options
- Table Options
- Indexes, Keys, and Constraints

Modifying Databases and Tables

- Deleting databases and tables
- Creating a New Table Using an Existing Table
- Confirming the Creation of a New Table
- Copying an Existing Table Structure

- Creating a Temporary Table
- Adding, removing and modifying table columns
- Adding, removing and modifying Indexes

Querying Table Data

- The SELECT Statement
- Creating Views
- Querying Data from an Application
- Exporting and Importing a Delimited File
- Troubleshooting

Modifying Table Data

- Manipulating Data
- Inserting records
- Replacing existing records
- Updating existing records
- Deleting records
- Exporting and importing a script
- Multistatement Transactions
- Modifying Data from an Application

Functions

- Functions in MySQL Expressions
- Using Functions
- String Functions
- Date and time functions
- Numeric Functions
- Aggregate Functions
- Spaces in Function Names

Joining Tables

- Querying Multiple Tables
- Joining Tables with SELECT
- Inner Joins
- Outer Joins
- Table Name Aliases

Conclusion

- Course Goals
- MySQL Curriculum Path
- MySQL Resources
- Evaluation
- Final Q&A