

MySQL Bootcamp

Explore, modify, and export data from databases in MySQL. Learn foundational concepts like tables, data types, and queries, and advanced techniques like join statements, subqueries, and stored procedures.

Group classes in NYC and onsite training is available for this course. For more information, email contact@nyimtraining.com or visit: <https://training-nyc.com/courses/mysql-bootcamp>



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Course Outline

Introduction to MySQL

- What is a database and why do we need SQL?
- Top 5 problems in Excel and why using SQL solves this problem
- Should we import from Excel and why? How it is done?
- Create a link to Excel spreadsheet with MySQL?

Tables & Queries

How to Create Tables 101

- SQL Data Types
- Primary Keys
- Null values and Not Null Values
- Auto Increment

How to Create a Basic Query

- Use the Where clause
- Conditional statements
- Multiple conditions
- Comparison Operators
- Logic Values
- Null Values
- Patterns also known as Wildcard characters
- Compare Column Values

Advanced Queries

- Distinct Values

- Top Values
- Date Functions
- Date Calculations
- Aggregate Functions
- String Functions
- Sort Data
- Rank Data

Save a Query

Execute a Query

Modify a Saved Query

Data Wrangling

Group Data

Filtering Grouped Data

Summarize Group Data

Pivot and Unpivot Operators

Data Analytics

Joins

- Inner Join
- Left Join
- Full Outer Join
- Self-Join
- Unions
- Except and Intersect

Presenting and Making Sense of Query Results

Saving the Query Results and Exporting

Generating Reports

Tables & Queries

Importing and Exporting Data

Update Data

Queries

- Distinct Values
- Top Values
- Subqueries with “In”
- Inline Views

Views

Create a Simple View

With Check Option

Locks and Transactions

- Exclusive Table Locks
- Shared Table Locks
- Using Variables
- Setting Variables with Selects
- Select/Update Example
- Simple Transactions

MySQL Functions

- String to Date and Date Format
- Control Flow Functions
- Casting Functions

Stored Procedures

- Introduction to Stored Procedures
- Changing the Delimiter
- Editing a Stored Procedure
- Variable Scope
- A Data Generating Procedure

Triggers

- Introduction to Triggers
- Validating Triggers
- Triggers and Transactions

User Defined Functions

- Functions vs Procedures
- User-Defined Functions