MySQL Bootcamp

Explore, modify, and export data from databases in MySQL. Learn foundation 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 nyc@careercenters.com or visit:
> https://www.careercenters.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