

SQL Bootcamp

This three-day bootcamp guides beginners into confident SQL users that can write queries, manipulate tables and store advanced code. Start by learning relational database and SQL fundamentals and compose basic queries. Next, you'll create views, subqueries and conversion functions. By the end, you will create your own SQL database, import and export data from Microsoft Office applications and automate workflow with stored procedures. This SQL Bootcamp package includes our Beginner, Intermediate, and Advanced SQL classes at a 15% discount.

Courses in this package:

- SQL Level I
- SQL Level II
- SQL Level III

Group classes in NYC and on-site training is available for this course. For more information including upcoming class dates and pricing, visit training-nyc.com/courses/sql-bootcamp-nyc or email contact@nyimtraining.com

Course Outline

SQL Level I

Basic Concepts

- Microsoft SQL Server
- What is SQL?
- What are Relational Databases?

The Graphic User Interface

- Object Explorer
- Query Window
- Results Grid
- Options

The Code

- Basic Clauses
- Field and Table Aliases
- Creative use of Aliases
- Inner Table Joins
- Aggregations
- Distinct Records
- Text Criteria & Operators
- Wildcard Filters
- Numeric Criteria & Operators

Student Labs

SQL Level II

The Code

- Self Joins
- Union Joins
- Cross Joins

Saving Queries Programmatically

- Views
- Functions
- Stored Procedures
- Layered Views
- Create Top Value Views

Sub Queries

- What is a Sub Query?
- Clarity and Transparency
- Single Table Sub Query
- Multiple Table Sub Query
- Exists versus In Operators
- Any versus All Operator

Math, Advanced Functions and Logic Statements

- Basic Math
- Advanced Date and Time Functions
- Advanced Text Functions
- Case When Then Logic Statements
- Variables and User Functions

Student Labs

- Creating Views
- Sub Queries
- Advanced Functions
- Logic and Date Functions

SQL Level III

Importing and Exporting Data

- Creating a Database and Tables in SQL
- Importing and Exporting Data from and to Excel
- Importing and Exporting Data from and to Access
- Importing, Updating and Deleting Data via Code

Building Control Structures

- Creating Primary Keys, Indexes and Constraints
- Setting up Referential Integrity
- Creating Database Diagrams

Temporary Tables

- Low Level Security Overview
- Local Temp Tables
- Global Temp Tables

Stored Procedures

- Parameter Queries using Variables through Views
- Automation of Workflow Processes
- Triggers to Create Workflow Events

Optional

- Protect Views with Schema binding
- Data Conversion Functions