

# SQL Bootcamp

Sign up today for three levels of SQL at a 15% discount with our SQL Bootcamp package: Basic, intermediate, advanced.

## Courses in this package:

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

## Course Outline

### SQL Level I

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#### 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

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#### 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**

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### **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

## Contact

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☎ 212-684-5151

✉ [nyc@careercenters.com](mailto:nyc@careercenters.com)

🌐 [www.careercenters.com](http://www.careercenters.com)