

# Intermediate SQL

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## Course Overview

SQL is a powerful and popular database program that is widely used for data analysis and manipulation. The Career Center provides hands-on Instructor-led training in small class sizes to provide an ideal training experience. When you arrive at The Career Center you are given a Course Manual, that is yours to keep, and then shown to your seat with a computer that is fully equipped with SQL. The instructor computer is attached to an overhead projector so you can easily follow their instructions. The class is taught in a very hands-on way, with the instructor teaching a concept and then the class doing exercises to enforce it. The maximum class size is 10 so you don't have to worry about getting lost in the crowd!

### I. The Code

- 1) Self Joins
- 2) Union Joins
- 3) Cross Joins

### II. Saving Queries Programmatically

- 4) Views
- 5) Functions
- 6) Stored Procedures
- 7) Layered Views
- 8) Create Top Value Views

### III. Sub Queries

- 9) What is a Sub Query?
- 10) Clarity and Transparency
- 11) Single Table Sub Query
- 12) Multiple Table Sub Query
- 13) Exists versus In Operators
- 14) Any versus All Operator

### III. Math, Advanced Functions and Logic Statements

- 15) Basic Math
- 16) Advanced Date and Time Functions
- 17) Advanced Text Functions
- 18) Case When Then Logic Statements
- 19) Variables and User Functions

### V. Student Labs

- 20) Creating Views
- 21) Sub Queries
- 22) Advanced Functions
- 23) Logic and Date Functions