

Intermediate SQL Boot Camp: Prerequisites and Curriculum



About the Boot Camp

This Intermediate SQL Boot Camp is designed for learners who are ready to move beyond basic queries and start working with more realistic, complex datasets. The course focuses on advanced filtering techniques, working with dates and text fields, and understanding how to connect data across multiple tables to support deeper analysis.

Through hands-on exercises and real-world scenarios, you'll practice writing queries that answer meaningful business questions, improve data accuracy, and streamline analysis workflows. By the end of the boot camp, you'll be more confident navigating complex SQL queries and interpreting results used in reporting and decision-making.

SQL Prerequisites Topics

Database structure

Order by (Sorting data)

Where (Filtering data)

Calculated fields

Text, dates, and numeric data types

Topics Required to Know:

Database Structure and Data Types

Overview of relational databases, data flow, and review common SQL terms

Database, schema, and tables overview

Retrieving Data from a Single Table

Retrieve data from a single table via the utilization of **SELECT** and **FROM** statements

Sort data using **ORDER BY** statements

Filtering, Calculating, and Aggregating Data

Utilize conditional operators to filter data using **WHERE** statements

Perform mathematical operations on multiple fields via **calculated fields**

Curriculum

Part 1: Joins

In this part of the training, you'll learn how to use INNER and LEFT joins to perform complex queries and extract insights from multiple tables.

Part 2: Dates

This section of the training focuses on working with date data — including extracting and filtering month, quarters, and year date-based data using various date functions.

Part 3: Advanced Filtering

This portion of the training focuses on advanced SQL filtering techniques, showing you how to combine multiple conditions and create more powerful queries.

Part 4: Writing Multi-Page Queries

This portion of the training focuses on using UNION statements to combine multiple query results into a single dataset, helping you build and manage more complex SQL queries that can span 2 to 3 pages.



DATA TELLS A STORY. BE THE STORYTELLER