

# SQL Level 2

Build on your knowledge of SQL fundamentals and enhance your skills to filter, group, and analyze data in this intermediate SQL course.

Group classes in NYC and onsite training is available for this course. For more information, email [hello@nobledesktop.com](mailto:hello@nobledesktop.com) or visit: <https://www.nobledesktop.com/classes/sql-level-2>



[hello@nobledesktop.com](mailto:hello@nobledesktop.com) • [\(212\) 226-4149](tel:2122264149)

## Course Outline

### Manipulating, Aggregating, & Filtering Data

#### Using CAST to Change Data Types

Why and how to use CAST to make a data type fit your query's needs

#### Aggregate Functions

- Using Aggregate Functions to perform common statistical calculations
- Using SUM, COUNT, AVG, MAX & MIN

#### Working with Dates & Time

- Date Functions: Getting the desired part of a date/time (Year, Month, Day, etc.)
- Formatting dates, including the day of the week (Sunday, Monday, etc.)
- Calculating the difference between 2 dates

### Grouping Data & Filtering Grouped Data

#### Grouping Data with Aggregate Functions

- Using GROUP BY to organize results into categories
- Applying Aggregate Functions to groups

#### Filtering Grouped Data with HAVING

- Using HAVING to filter the results of a GROUP BY
- HAVING vs WHERE

### Other Types of Joins: Self Joins & Union

#### Self Joins

- How a Self Join is different from other types of joins
- Using a Self Join

## Union

- How UNION is different from other types of joins
- Combining result sets with UNION