COURSE SYLLABUS

SQL Level 2

Enhance your SQL skills by learning how to join, filter, group, and analyze data in this intermediate course. Discover techniques for outer joins, manipulating data types, working with dates and times, grouping data, and filtering grouped data. Gain the ability to extract and analyze specific data for actionable insights.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/sql-level-2



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Course Outline

Inner vs Outer JOIN

Outer Joins & Finding NULLs

- Left Join
- Right Join
- Full Join
- Find NULL values

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