SQL window functions – Lesson overview

SQL window functions, also known as analytic functions, are a powerful way to analyse and manipulate data within SQL queries by allowing us to perform calculations that consider the **context of neighbouring rows**.

In this lesson, we are introduced to SQL window functions and how to harness their capabilities to **perform advanced data analysis tasks**. We will learn how to rank data, calculate running totals, and access values from neighbouring rows.

Learning objectives

- Understand what SQL window functions are and how they differ from conventional aggregate functions.

- Know window function syntax, its basic operation, and the different types of window functions and their capabilities.

- Know how to apply window functions in SQL.

Slide deck   Knowledge questions

Walk-through   Notebook

Exercise   Reference card

SQL window functions

SQL window functions
20 min

START

Window functions and syntax
10 min   5 min

Window functions in SQL
25 min   5 min

Aggregation using window functions
20 min   5 min

Top-N analysis using ranking window functions
20 min   5 min

Using value-based window functions
20 min   5 min