# Unleashing the Power of SQL Window Functions

From Running Totals to Rankings and More

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# What Are SQL Window Functions?

Perform calculations across rows related to the current row in subsets of data.

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# Ranking Functions

Assign unique ranks to rows based on specified order using ROW_NUMBER(), RANK(), DENSE_RANK().

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# Aggregate Functions

SUM(), AVG() can aggregate values within a window for tasks like calculating running totals.

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# Windowing Clauses

Define specific windows for calculations using ROWS BETWEEN and RANGE BETWEEN clauses.

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# LEAD() and LAG() Functions

Access data from subsequent or preceding rows within the same result set for comparisons.

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# FIRST_VALUE() and LAST_VALUE()

Retrieve the first or last value in an ordered partition for analysis.

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# Practical Applications

Explore running totals, rankings, time-based analysis, and moving averages with window functions.

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# In Summary

SQL Window Functions offer powerful ways to analyze data subsets and perform advanced calculations efficiently.

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# Ready to Dive Into SQL Window Functions?

Share your thoughts and experiences with using window functions in the comments!

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