



Day 1: Basic Grouping and Aggregation	Intermediate Functions	SQL Aggregates
<h3>Aggregating Functions</h3> <p>Aggregating functions are used to calculate the aggregate values for a group of data. They are typically used in conjunction with the <code>GROUP BY</code> clause.</p> <ul style="list-style-type: none">Arithmetic Aggregates:<ul style="list-style-type: none"><code>sum()</code>: Calculate the sum of the values in the group.<code>count()</code>: Calculate the number of rows in the group.<code>min()</code>: Calculate the minimum value in the group.<code>max()</code>: Calculate the maximum value in the group.<code>avg()</code>: Calculate the average value in the group.String Aggregates:<ul style="list-style-type: none"><code>concat_ws()</code>: Concatenate the values in the group into a single string, with a specified separator.<code>group_concat()</code>: Concatenate the values in the group into a single string, separated by a delimiter.Window Functions:<ul style="list-style-type: none"><code>row_number()</code>: Assign a unique row number to each row in the group.<code>rank()</code>: Assign a rank to each row in the group.<code>percent_rank()</code>: Calculate the percentage rank of each row in the group.<code>cume_dist()</code>: Calculate the cumulative distribution of each row in the group.	<p>When using <code>ORDER BY</code> with <code>ORDER BY</code> in the <code>WHERE</code> clause, the <code>ORDER BY</code> clause must appear before the <code>WHERE</code> clause.</p> <p>When using <code>ORDER BY</code> with <code>ORDER BY</code> in the <code>WHERE</code> clause, the <code>ORDER BY</code> clause must appear before the <code>WHERE</code> clause.</p> <p>When using <code>ORDER BY</code> with <code>ORDER BY</code> in the <code>WHERE</code> clause, the <code>ORDER BY</code> clause must appear before the <code>WHERE</code> clause.</p> <p>When using <code>ORDER BY</code> with <code>ORDER BY</code> in the <code>WHERE</code> clause, the <code>ORDER BY</code> clause must appear before the <code>WHERE</code> clause.</p> <p>When using <code>ORDER BY</code> with <code>ORDER BY</code> in the <code>WHERE</code> clause, the <code>ORDER BY</code> clause 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only the date portion from a datetime column),
SQL grouping and aggregation have occurred. This
GROUP BY clause groups internal user aggregate functions)
while external aggregation occurs using aggregate
functions after GROUP BY and before ORDER BY.
an aggregate function results occur, sorting may
either sort individual rows
made in this query's calculation.
processed before aggregation occurs, so do not
rely on results if you try to use an aggregate
function.
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