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### [SQLite Aggregate Functions](https://www.sqlitetutorial.net/sqlite-aggregate-functions/" \o "SQLite Aggregate Functions)

This tutorial shows you how to use the SQLite aggregate functions to find the maximum, minimum, average, sum, and count of a set of values.

[](https://www.sqlitetutorial.net/sqlite-date-functions/)

### [SQLite Date Functions](https://www.sqlitetutorial.net/sqlite-date-functions/" \o "SQLite Date Functions)

This section provides you with SQLite date and time functions that help you manipulate datetime data effectively.

[](https://www.sqlitetutorial.net/sqlite-string-functions/)

### [SQLite String Functions](https://www.sqlitetutorial.net/sqlite-string-functions/" \o "SQLite String Functions)

This section shows the most commonly used SQLite string functions that help you manipulate character string data effectively.

[](https://www.sqlitetutorial.net/sqlite-window-functions/)

### [SQLite Window Functions](https://www.sqlitetutorial.net/sqlite-window-functions/" \o "SQLite Window Functions)

SQLite window functions perform a calculation on a set of rows that are related to the current row. Unlike aggregate functions, window functions do not cause rows to become grouped into a single result row.

## [SQLite aggregate functions](https://www.sqlitetutorial.net/sqlite-aggregate-functions/)

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| ****Name**** | ****Description**** |
| [AVG](https://www.sqlitetutorial.net/sqlite-avg/) | Return the average value of non-null values in a group |
| [COUNT](https://www.sqlitetutorial.net/sqlite-count-function/) | Return the total number of rows in a table. |
| [MAX](https://www.sqlitetutorial.net/sqlite-max/) | Return the maximum value of all values in a group. |
| [MIN](https://www.sqlitetutorial.net/sqlite-min/) | Return the minimum value of all values in a group. |
| [SUM](https://www.sqlitetutorial.net/sqlite-sum/) | Return the sum of all non-null values in a column |
| [GROUP\_CONCAT](https://www.sqlitetutorial.net/sqlite-group_concat/) | Concatenate non-null values in a column |

## [SQLite string functions](https://www.sqlitetutorial.net/sqlite-string-functions/)

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| ****Name**** | ****Description**** |
| [SUBSTR](https://www.sqlitetutorial.net/sqlite-functions/sqlite-substr/) | Extract and returns a substring with a predefined length starting at a specified position in a source string |
| [TRIM](https://www.sqlitetutorial.net/sqlite-functions/sqlite-trim/) | Return a copy of a string that has specified characters removed from the beginning and the end of a string. |
| [LTRIM](https://www.sqlitetutorial.net/sqlite-functions/sqlite-ltrim/) | Return a copy of a string that has specified characters removed from the beginning of a string. |
| [RTRIM](https://www.sqlitetutorial.net/sqlite-functions/sqlite-rtrim/) | Return a copy of a string that has specified characters removed from the end of a string. |
| [LENGTH](https://www.sqlitetutorial.net/sqlite-functions/sqlite-length/) | Return the number of characters in a string or the number of bytes in a BLOB. |
| [REPLACE](https://www.sqlitetutorial.net/sqlite-replace-function/) | Return a copy of a string with each instance of a substring replaced by the other substring. |
| [UPPER](https://www.sqlitetutorial.net/sqlite-functions/sqlite-upper/) | Return a copy of a string with all of the characters converted to uppercase. |
| [LOWER](https://www.sqlitetutorial.net/sqlite-functions/sqlite-lower/) | Return a copy of a string with all of the characters converted to lowercase. |
| [INSTR](https://www.sqlitetutorial.net/sqlite-functions/sqlite-instr/) | Find a substring in a string and returns an integer indicating the position of the first occurrence of the substring. |

## SQLite control flow functions

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| --- | --- |
| ****Name**** | ****Description**** |
| [COALESCE](https://www.sqlitetutorial.net/sqlite-functions/sqlite-coalesce/) | Return the first non-null argument |
| [IFNULL](https://www.sqlitetutorial.net/sqlite-functions/sqlite-ifnull/) | Provide the NULL if/else construct |
| [IIF](https://www.sqlitetutorial.net/sqlite-functions/sqlite-iif/) | Add if-else logic to queries. |
| [NULLIF](https://www.sqlitetutorial.net/sqlite-functions/sqlite-nullif/) | Return NULL if the first argument is equal to the second argument. |

## SQlite date and time functions

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| --- | --- |
| ****Name**** | ****Description**** |
| [DATE](https://www.sqlitetutorial.net/sqlite-date-functions/sqlite-date-function/) | Calculate the date based on multiple date modifiers. |
| [TIME](https://www.sqlitetutorial.net/sqlite-date-functions/sqlite-time-function/) | Calculate the time based on multiple date modifiers. |
| [DATETIME](https://www.sqlitetutorial.net/sqlite-date-functions/sqlite-datetime-function/) | Calculate the date & time based on one or more date modifiers. |
| JULIANDAY | Return the [Julian day](http://en.wikipedia.org/wiki/Julian_day), which is the number of days since noon in Greenwich on November 24, 4714 B.C. |
| [STRFTIME](https://www.sqlitetutorial.net/sqlite-date-functions/sqlite-strftime-function/) | Format the date based on a specified format string. |

## SQLite math functions

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| --- | --- |
| ****Name**** | ****Description**** |
| [ABS](https://www.sqlitetutorial.net/sqlite-functions/sqlite-abs/) | Return the absolute value of a number |
| [RANDOM](https://www.sqlitetutorial.net/sqlite-functions/sqlite-random/) | Return a random floating-point value between the minimum and maximum integer values |
| [ROUND](https://www.sqlitetutorial.net/sqlite-functions/sqlite-round/) | Round off a floating value to a specified precision. |