Miscellaneous functions

Miscellaneous functions are supporting functions in SQL that can be used with various data types.

CAST()

Converts a value from its current data type into a specified data type.

SELECT

CAST(expression AS datatype) **FROM**

Table_name;

IFNULL()

Returns a specified value if the given expression is null. Otherwise,

it returns the value of the expression itself.

SELECT

IFNULL(expression, alternative_value)

FROM Table_name;

ISNULL()

Determines if an expression is NULL or not. If the expression is

NULL, it returns 1. Otherwise, it returns 0. **SELECT**

Converts a string to uppercase.

Table_name;

Table_name;

Table_name;

Table_name;

UPPER(string) AS Alias

LTRIM(string) AS Alias

LENGTH(string) AS Alias

Removes leading spaces from the left end of a string.

Determines the length (number of characters) of a string.

Extracts a specified number of characters from the leftmost side

ISNULL(expression) **FROM**

Table_name;

CONVERT()

Another function that converts a value from its current data type into a specified data type.

SELECT

CONVERT(value, datatype) FROM

Table_name;

Compares two expressions and returns NULL if they are equal. Otherwise, the first expression is returned.

SELECT NULLIF(expression1, expression2)

FROM

NULLIF()

Table_name;

COALESCE()

Evaluates expressions from left to right, returning the first non-NULL value or NULL if all expressions are NULL.

SELECT

COALESCE(value1, value1, ...)

FROM

Table_name;

String functions are used to manipulate and format string data types to ensure consistency.

UPPER()

SELECT

LTRIM()

SELECT

LENGTH()

SELECT

FROM

LEFT()

of a string.

SUBSTRING()

SELECT

REPLACE()

SELECT

FROM

FROM

FROM

String functions

LOWER()

Converts a string to lowercase.

SELECT

LOWER(string) AS Alias

FROM

Table_name;

Table_name;

Table_name;

RTRIM()

Removes trailing spaces from the right end of a string.

SELECT

RTRIM(string) AS Alias **FROM**

POSITION()

Returns the position (index) of the first occurrence of a substring within a string.

SELECT

POSITION(string IN string) AS Alias **FROM**

RIGHT()

Extracts a specified number of characters from the rightmost side of a string.

SELECT

RIGHT(string, length) AS Alias

FROM

Table_name;

CONCAT() Concatenates or joins multiple strings together.

AS Alias FROM

SUBSTRING(string, start_position, length)

LEFT(string, length) AS Alias

Table_name;

Extracts a substring from a string.

SELECT

CONCAT(string1, string2, ...)

AS Alias **FROM**

Table_name;

SELECT

Table_name;

Datetime functions

CURRENT_DATE()

SELECT

SELECT

FROM

SELECT

SELECT

FROM

is specific to MySQL.

REPLACE(string, search_string, replacement_string) AS Alias FROM

Replaces all occurrences of a specified substring within a string with a new substring.

Datetime functions allow manipulation and calculation of date and time values.

SELECT NOW() AS Current_date;

Returns the current date and time from the system. The function is

DAY() Returns the day of the month for a specified date.

Table_name;

CURRENT_TIMESTAMP() Returns the current date and time from the system. The function is specific to MySQL.

CURRENT_TIMESTAMP() AS Current_timestamp;

DATEDIFF(date_part, start_date, end_date)

different actions or return different values based on specific conditions.

Returns the current date without the time component. The function

SELECT

Returns the **month** for a specified date.

MONTH()

CURRENT_DATE() AS Current_date;

Table_name;

AS Alias;

DATEDIFF()

Calculates the difference between two dates.

MONTH(date_expression) AS Alias;

FROM Table_name;

Returns the year for a specified date. SELECT

YEAR()

SELECT

FROM

NOW()

specific to MySQL.

YEAR(date_expression) AS Alias;

FROM

Table_name;

DAY(date_expression) AS Alias;

DATE_ADD() Adds a specified interval to a date or datetime value.

SELECT DATE_ADD(date, INTERVAL value INTERVAL_UNIT) AS Alias;

FROM Table_name;

Control flow functions are used to implement conditional logic and control the flow of execution within SQL queries. They allow us to perform

A list of values are compared to a given CASE expression.

WHEN value_1 THEN result_1

WHEN value_2 THEN result_2

WHEN value_N THEN result_N

IF() Evaluates a condition and returns a particular value if a condition is TRUE, or another value if a condition is FALSE.

Table_name;

CASE Case_Expression

ELSE result

END

Control flow functions

START

IF(condition, value_if_true, value_if_false)

False True Condition value_if_false value_if_true **END Searched CASE statement**

A list of conditions are evaluated to either TRUE or FALSE.

WHEN condition_1 THEN result_1

WHEN condition_2 THEN result_2

WHEN condition_N THEN result_N

END AS Alias_name START True condition_1 result_1 False True condition_2 result_2 False True condition_N result_N False ELSE result

END AS Alias_name **START**

Case_Expression

= value_N

Nested IF statement:

Nested IF and CASE statement:

False

ELSE result

Simple CASE statement

CASE Case_Expression

True Case_Expression result_1 = value_1 False True Case_Expression result_2 = value_2 False

ELSE result **END Nested conditional statements** One or more conditional statements, like the IF and CASE control flow functions, within another conditional statement.

True

result_N

The use of an IF function inside

The use of an IF function inside

of another IF function.

of another CASE function.



EXPLORE AI A C A D E M Y