

MYSQL STRING FUNCTIONS

📌 1. String Length and Position

FUNCTION	DESCRIPTION	EXAMPLE	OUTPUT
LENGTH(STR)	Length in bytes	SELECT LENGTH('Hello');	5
CHAR_LENGTH(STR)	Length in characters	SELECT CHAR_LENGTH('Hello');	5
POSITION(SUBSTR IN STR)	Position of substring	SELECT POSITION('lo' IN 'Hello');	4
LOCATE(SUBSTR, STR)	Position of substring (same as POSITION)	SELECT LOCATE('lo', 'Hello');	4
INSTR(STR, SUBSTR)	Returns position of substring	SELECT INSTR('Hello World', 'World');	7

📌 2. String Comparison

FUNCTION / OPERATOR	DESCRIPTION	EXAMPLE	OUTPUT
STRCMP(STR1, STR2)	Compares two strings	SELECT STRCMP('abc', 'abc');	0
LIKE	Pattern matching	SELECT 'apple' LIKE 'a%';	1
= / < / > / !=	Standard comparison	SELECT 'apple' = 'apple';	1

3. String Modification

FUNCTION	DESCRIPTION	EXAMPLE	OUTPUT
CONCAT(STR1, STR2, ...)	Concatenates strings	SELECT CONCAT('Hello', ' ', 'World');	Hello World
REPLACE(STR, FROM, TO)	Replaces substring	SELECT REPLACE('Hello', 'llo', 'y');	Hey
SUBSTRING(STR, POS, LEN)	Extracts substring	SELECT SUBSTRING('Hello', 2, 3);	ell
INSERT(STR, POS, LEN, NEW)	Inserts substring	SELECT INSERT('abcdef', 2, 3, 'XYZ');	aXYZef

4. String Case Conversion

FUNCTION	DESCRIPTION	EXAMPLE	OUTPUT
UPPER(STR) / UCASE()	Converts to uppercase	SELECT UPPER('hello');	HELLO
LOWER(STR) / LCASE()	Converts to lowercase	SELECT LOWER('HELLO');	hello

5. Trimming and Padding

FUNCTION	DESCRIPTION	EXAMPLE	OUTPUT
TRIM(STR)	Trims leading & trailing spaces	SELECT TRIM(' Hello ');	Hello
TRIM(BOTH 'X' FROM 'XXXABCXXX')	Trims specific characters	SELECT TRIM(BOTH 'x' FROM 'xxxabcxxx');	abc
LTRIM(STR)	Trims leading spaces	SELECT LTRIM(' Hello');	Hello

RTRIM(STR)	Trims trailing spaces	SELECT RTRIM('Hello ');	Hello
LPAD(STR, LEN, PADSTR)	Left-pads to specified length	SELECT LPAD('123', 5, '0');	00123
RPAD(STR, LEN, PADSTR)	Right-pads to specified length	SELECT RPAD('123', 5, '0');	12300

📌 6. Regular Expression

FUNCTION / OPERATOR	DESCRIPTION	EXAMPLE	OUTPUT
REGEXP / RLIKE	Matches regex pattern	SELECT 'apple' REGEXP '^a';	1
REGEXP_LIKE(STR, PATTERN)	Returns true if string matches pattern	SELECT REGEXP_LIKE('abc123', '^[a-z]+[0-9]+\$');	1

<https://sohamkore.github.io/sql>