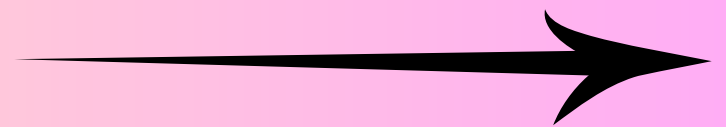# Importance Of String Functions In SQL

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What is String Function?

- String fuction are essential tools in sql taht allows you to manipulate text data with ease.

Why Use String Functions?

- String functions in SQL are used for cleaning, transforming, manipulating, validating, and analyzing text data within databases, making data handling tasks more efficient and effective.

How Do They Work?

- **String functions in SQL take input text data, perform specific operations like converting case, extracting substrings, or concatenating strings, and then return the transformed output. They are applied within SQL queries to manipulate text data efficiently**

Most commonly used string functions :

1️⃣ UPPER(): Transform text to UPPERCASE.

```sql
SELECT UPPER(first_name) AS upper_case_name
FROM employees;
```

2️⃣ LOWER(): Convert text to lowercase.

```sql
SELECT LOWER('WORLD') AS lower_case_text;
```

3️⃣ LENGTH(): Fetch the length of a string.

```sql
SELECT LENGTH('Hello, World!') AS string_length;
```

4 **SUBSTRING(): Extract a substring from within a string.**

```sql
SELECT SUBSTRING('Hello, World!', 1, 5) AS substring_text;
```

5 **NOW(): Obtain the current system date and time.**

```sql
SELECT NOW() AS current_datetime;
```

6️⃣ FORMAT(): Tailor the format of a field.

```sql
SELECT FORMAT(12345.67, '0,0.00') AS formatted_number;
```

7️⃣ CONCAT(): Merge two or more strings seamlessly.

```sql
SELECT CONCAT('Hello', ' ', 'World') AS concatenated_text;
```

8 REPLACE(): Effortlessly swap substrings within a string.

```sql
SELECT REPLACE('Hello, World!', 'World', 'Universe') AS replaced_text;
```

9 TRIM(): Purge leading and trailing spaceor designated characters.

```sql
SELECT TRIM('   Hello, World!   ') AS trimmed_text;
```

Thank You