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=====
== String Functions ==
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- CONCAT(string1, string2, ...): combines multiple strings into one
- UPPER(text): convert all letters into upper case
- LOWER(text): convert all letters into lower case
- TRIM(text): remove the leading and trailing spaces from the left and right
side
- REPLACE(text, old, new): replaces specific character with a new character
- LEN(text): get the length of the characters
- LEFT(string, length): extracts specific number of characters from the start
- RIGHT(string, length): extracts specific number of characters from the end
- SUBSTRING(value, start, final_length): extracts a part of string at a
specified position
*/
USE MyDatabase;

-- concatenate first name and country into one column
SELECT
    first_name,
    country,
    CONCAT(first_name, country) AS name_with_country
FROM customers;

-- you can write separator between columns
SELECT
    first_name,
    country,
    CONCAT(first_name, ' - ', country) AS name_with_country
FROM customers;

-- convert the first name to upper case
SELECT
    first_name,
    UPPER(first_name) AS upper_case
FROM customers;

-- convert the first name to lower case
SELECT
    first_name,
    LOWER(first_name)
FROM customers;

-- remove the spaces from the text
SELECT
    TRIM(' john ') AS trimed_data
FROM customers;

-- remove the special characters from the text
SELECT
    TRIM('-' FROM '--osama--') AS trimed_data
FROM customers;

-- replace word to another word
SELECT REPLACE('Hello World', 'World', 'SQL') AS Result;

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-- replace the old phone syntax number to another syntax
SELECT
    '123-456-789' AS phone_number,
    REPLACE('123-456-789', '-', '') AS formatted_phone_number
FROM customers;

-- replace file extence from txt to csv
SELECT
    'file.txt' AS old_file,
    REPLACE('file.txt', '.txt', '.csv') AS new_file;

-- get the length of the text
SELECT
    first_name,
    LEN(first_name) AS text_length,
    LEN(TRIM(first_name)) AS text_after_trim
FROM customers;

-- extract the first 2 characters from the first name at the start
SELECT
    first_name,
    LEFT(first_name, 2) AS first_two_characters
FROM customers;

-- get the last character from the first name
SELECT
    first_name,
    RIGHT(first_name, 1) AS last_character
FROM customers;

-- get the first two characters after trim
SELECT
    first_name,
    LEFT(TRIM(first_name), 2) AS first_two_characters
FROM customers;

-- get the first two characters before trim
SELECT
    first_name,
    LEFT(first_name, 2) AS first_two_characters
FROM customers;

-- retrieve a list of customers'first names after removing the first character
SELECT
    first_name,
    SUBSTRING(first_name, 2, 4) AS new_string
FROM customers;

-- retrieve a list of customers's first name after removing the first character
SELECT
    first_name,
    SUBSTRING(first_name, 2, LEN(first_name))
FROM customers;
```