**In Built Functions**

Concat(str1, str2, …)

-- Returns the string that results from concatenating the arguments.

-- It may have one or more arguments.

-- If all arguments are non-binary strings, the result is a non-binary string. If the arguments include any binary strings, the result is a binary string.

SELECT CONCAT('Hello', 'World'); -- o/p : "HelloWorld"

SELECT CONCAT('Hello', ' ', 'World'); -- o/p : "Hello World"

SELECT CONCAT(first\_name, ' ', last\_name) as Employee\_Full\_Name FROM dev\_schema.employee;

Concat\_WS(separator, str1, str2, …)

-- CONCAT\_WS() stands for Concatenate With Separator and is a special form of CONCAT().

-- The first argument is the separator for the rest of the arguments.

-- The separator is added between the strings to be concatenated.

-- The separator can be a string, as can the rest of the arguments. If the separator is NULL, the result is NULL.

SELECT CONCAT\_WS(',', 'Hello', 'World'); -- o/p : "Hello,World"

SELECT CONCAT\_WS('Hello', 'World'); -- o/p : "World"

SELECT CONCAT\_WS(', ', department\_id, department\_name) FROM dev\_schema.department;

Lower(str)

-- Returns the string str with all characters changed to lowercase according to the current character set mapping.

SELECT LOWER('GDWLKGHDSLGHDG'); -- o/p : "gdwlkghdslghdg"

SELECT LOWER(first\_name) as full\_name FROM dev\_schema.employee;

SELECT LOWER(CONCAT(first\_name, ' ', last\_name)) as full\_name FROM dev\_schema.employee;

String Functions

1. ASCII()
2. CHAR\_LENGTH()

-- This string function returns the length of the specified word. It shows the number of characters from the word.

1. CHARACTER\_LENGTH()

-- This string function returns the length of the given string. It shows the number of all characters and spaces from the sentence.

1. CONCAT()
2. CONCAT\_WS()
3. FORMAT()
4. INSERT()
5. INSTR()
6. LCASE()
7. LEFT()
8. LOCATE()
9. LOWER()
10. LPAD()
11. LTRIM()
12. MID()
13. POSITION()
14. REPEAT()
15. REPLACE()
16. REVERSE()
17. RIGHT()
18. RPAD()
19. RTRIM()
20. SPACE()
21. STRCMP()
22. SUBSTR()
23. SUBSTRING()

-- In PostgreSQL, the substring function is used to extract a substring from a string.

1. SUBSTRING\_INDEX()
2. UCASE()
3. UPPER()

Coalesce()

-- In PostgreSQL, the COALESCE function returns the first non-null argument.

-- It is generally used with the SELECT statement to handle null values effectively.

**Syntax:** COALESCE (argument\_1, argument\_2, …);

-- The COALESCE function accepts an unlimited number of arguments.

-- It returns the first argument that is not null.

-- If all arguments are null, the COALESCE function will return null.

-- The COALESCE function evaluates arguments from left to right until it finds the first non-null argument. All the remaining arguments from the first non-null argument are not evaluated.

SELECT job\_title, (COALESCE(max\_salary, 0)-min\_salary/2) as avg\_salary FROM dev\_schema.job;