

## Section – A: Theory Questions

 How to find the length of the string in SQL? [Hint: CHAR\_LENGTH, Character\_Length]

To find the length of a string in SQL, we can use the CHAR\_LENGTH or CHARACTER\_LENGTH function.

2. Explain how the CONCAT function is utilized to merge two or more strings in SQL.

The CONCAT function in SQL can be used to merge two or more strings by concatenating them. The syntax is "CONCAT(string1, string2, ...)".

3. What is the main difference between CONCAT and CONCAT\_WS functions in SQL?

The main difference between the CONCAT and CONCAT\_WS functions in SQL is that CONCAT\_WS has an additional separator parameter, which is placed between each string being concatenated. The syntax is "CONCAT\_WS(separator, string1, string2, ...)".

4. Explain how to convert a string to uppercase or lowercase in SQL. [Hint: UCase, LCase, Upper, Lower]

To convert a string to uppercase or lowercase in SQL, we can use the UCASE or LCASE function, or the UPPER or LOWER function, depending on the database management system being used.

5. What is the role of the LEFT, RIGHT, and MID functions in SQL and how are they used?

The LEFT, RIGHT, and MID functions in SQL are used to extract a portion of a string. LEFT returns the leftmost n characters of a string, RIGHT returns the rightmost n characters of a string, and MID returns a substring of a string, starting from a specified position and for a specified number of characters.

6. which function is used to determine the location of a substring in a string in SQL? [Hint: Position, Instr, Locate]

The POSITION, INSTR, or LOCATE function can be used to determine the location of a substring in a string in SQL.

7. How to replace a part of the string in SQL? [Hint: Replace]

The REPLACE function in SQL can be used to replace a part of a string. The syntax is "REPLACE(string, find\_string, replace\_with)".



8. Describe the STRCMP function in SQL, and how it can be used to compare strings.

The STRCMP function in SQL is used to compare two strings, and it returns 0 if the strings are equal, 1 if the first string is greater, and -1 if the first string is smaller. The syntax is "STRCMP(string1, string2)".

9. Explain the use of the SUBSTRING function in SQL and how it can be utilized to extract a section of a string.

The SUBSTRING function in SQL can be used to extract a section of a string. The syntax is "SUBSTRING(string, start, length)".

**10. How to reverse the order of characters in a string in SQL?** [Hint: Reverse] To reverse the order of characters in a string in SQL, we can use the REVERSE function. The syntax is "REVERSE(string)".



## Section – B: Practice Questions

- Write a SQL query to find the length of the country name in the "country" table.
   [Hint: Char\_length, Character\_length]
   SELECT CHAR\_LENGTH(name) as name\_length FROM country;
- Write a SQL query to concatenate the name and code in the "country" table, separated by a space.[Hint: Concat]
   SELECT CONCAT(name, '', code) as full\_name FROM country;
- Write a SQL query to concatenate the code, name, localname, continent, region in the "country" table, separated by a comma. [Hint: Concat\_ws]
   SELECT CONCAT\_WS(',', code, name, localname, continent, region) as countries FROM country;
- Write a SQL query to convert the country name to uppercase in the "country" table.[Hint: UCase, Upper] SELECT UPPER(name) FROM country;
- Write a SQL query to extract the first 3 characters of the name in the "country" table.[Hint: Left] SELECT LEFT(name, 3) FROM country;
- 6. Write a SQL query to extract a substring of 5 characters from the "country" table, starting from the 2nd character and ending at the 7th character of the "name" column in the "country" table.[Hint: Substring, mid]

  SELECT name, SUBSTRING(name, 2, 5) AS middle\_5\_characters FROM country;
- 7. Write a SQL query to determine the position of code in the country name in the "country" table. [Hint: Locate, Instr, Position] (not applicable using code eval) SELECT name, code, POSITION(code IN name) as code\_name FROM country;
- 8. Write a SQL query to compare the country name and address in the "country" table, and return the result in the form of 0, 1, or -1. (not applicable using code eval)
  - SELECT name, localname, STRCMP(name, localname) AS same\_names FROM country;
- 9. Write a SQL query to reverse the order of characters in the country name in the "country" table. (not applicable using code eval) SELECT name, REVERSE(name) as new\_name FROM country;