Here are **30 SQL string operation questions** tailored specifically to your user\_profiles dataset inside the string\_operation database. These will help you practice trimming, casing, substring extraction, concatenation, pattern matching, and more — all grounded in your actual table structure.

🔤 Basic String Manipulation

1. Convert all full\_name values to uppercase.
2. Convert all city names to proper case (first letter uppercase, rest lowercase).
3. Trim leading and trailing spaces from full\_name.
4. Trim spaces from phone\_number.
5. Count the number of characters in each bio.

✂️ Substring Extraction

1. Extract the first name from full\_name.
2. Extract the last name from full\_name.
3. Get the first 5 characters of each city.
4. Extract the domain name from each email.
5. Extract the area code (first 3 digits) from phone\_number.

🔗 Concatenation & Formatting

* 1. Create a new column display\_name as full\_name from city.
  2. Format a new email as firstname.lastname@stringop.com.
  3. Create a username column from full\_name in lowercase with a dot separator.
  4. Concatenate city and phone\_number with a hyphen.
  5. Build a search\_key column as full\_name - email.

🔍 Pattern Matching

* + 1. Find users whose bio contains the word "music".
    2. Select users where full\_name starts with "D".
    3. Find users whose email ends with ".com".
    4. Retrieve rows where bio contains "&".
    5. Select users whose city contains the letter "o".

🧼 Data Cleaning

* + - 1. Replace all dashes in phone\_number with empty strings.
      2. Replace "&" with "and" in bio.
      3. Remove extra spaces from bio.
      4. Standardize email to lowercase.
      5. Capitalize only the first letter of each bio.

🧠 Advanced String Logic

* + - * 1. Count how many spaces are in each bio.
        2. Find the position of "@" in each email.
        3. Extract the middle name from full\_name if present.
        4. Flag rows where bio is longer than 30 characters.
        5. Create a column that checks if full\_name has more than two words.