16. Write SQL Query using following String operations

-- Create Student table
CREATE TABLE Student (
    student_id INT PRIMARY KEY,
    name VARCHAR(100),
    email VARCHAR(100)
);

-- Insert data into Student table
INSERT INTO Student values (1, 'John Doe', 'john.doe@example.com');
INSERT INTO Student values (2, 'Alice Smith', ' alice.smith@example.com ');
INSERT INTO Student values (3, 'Bob Johnson', 'bob.johnson@example.com');

-- String operations examples
-- Length: Returns the number of characters in a string
SELECT name, LENGTH(name) AS name_length FROM Student;

-- ltrim: Removes leading spaces from a string
SELECT name, ltrim(name) AS trimmed_name FROM Student;

-- rtrim: Removes trailing spaces from a string
SELECT email, rtrim(email) AS trimmed_email FROM Student;

-- translate: Translates each character in a string
SELECT name, translate(name, 'aeiou', 'AEIOU') AS translated_name FROM Student;

-- concat: Concatenates two or more strings
SELECT name, email, name || ' <' || email || '>' AS formatted_email FROM Student;