### **Lab 13- Simple Statement to SQL Query PostgreSQL (Like Operator)**

Here's a lab exercise for generating SQL queries using the LIKE operator in PostgreSQL based on English statements:

**Create a table:**

CREATE TABLE products (

product\_id SERIAL PRIMARY KEY,

product\_name VARCHAR(50),

category VARCHAR(50),

price NUMERIC(10, 2)

);

Insert sample data:

INSERT INTO products (product\_name, category, price)

VALUES ('Laptop', 'Electronics', 1200.00),

('Headphones', 'Electronics', 100.00),

('T-shirt', 'Clothing', 25.00);

English statements and their SQL equivalents using the LIKE operator:

a. English: "Retrieve products with names starting with 'L'."

SELECT \* FROM products WHERE product\_name LIKE 'L%';

b. English: "Retrieve products with names containing 'top'."

SELECT \* FROM products WHERE product\_name LIKE '%top%';

c. English: "Retrieve products in the 'Electronics' category."

SELECT \* FROM products WHERE category LIKE 'Electronics';

d. English: "Retrieve products with prices ending in '.00'."

SELECT \* FROM products WHERE price::text LIKE '%.00';

e. English: "Retrieve products with names not starting with 'H'."

SELECT \* FROM products WHERE NOT product\_name LIKE 'H%';

DROP TABLE products;

These examples demonstrate the usage of the LIKE operator in SQL queries in PostgreSQL to perform pattern matching on strings. Execute these queries in your PostgreSQL database to become more familiar with the LIKE operator and its capabilities.