Before describing the reasoning for each of my SQL queries (for the questions assigned in the homework). It is useful to understand the pattern of each of the query functions used to obtain the answers for each question. Each function involves two main components: (1) a parameterized SQL query and the (2) helper function execute\_and\_fetch in order to connect to the PostgreSQL database and then execute the prior defined SQL query with the remaining parameters needed to complete that query.

1. How many entries do you have in your database who have applied for Fall 2024?

This is a “count” type of query, so the query executed is simply done with one f-string that uses SELECT COUNT and filters by the placeholder term = %s, in which we use to filter the counts by term = “Fall 2024”.

1. What percentage of entries are from international students (to two decimal places)?