```
# How many entries do you have in your database who have applied for Fall 2025?
   query1 = """
   SELECT COUNT(*)
   FROM applicants
   WHERE term LIKE '%Fall 2025%'
   """
```

I selected all entries in the table that had "Fall 2025" as their term.

I selected all entries with the "International" value as their us\_or\_international. I took the count of those number of occasions, divided by the total count of entries, multiplied by 100 in order to get a percentage, then rounded

```
# What is the average GPA, GRE, GRE V, GRE AW of applicants who provide these metrics?
  query3a = """
  SELECT AVG(gpa)
  FROM applicants
  WHERE gpa IS NOT NULL
  """
  execute_query("Average GPA", query3a)

query3b = """
  SELECT AVG(gre)
  FROM applicants
  WHERE gre IS NOT NULL
  """
  execute_query("Average GRE", query3b)

query3c = """
  SELECT AVG(gre_v)
  FROM applicants
  WHERE gre_v IS NOT NULL
  """
```

```
execute_query("Average GRE V", query3c)

query3d = """

SELECT AVG(gre_aw)

FROM applicants

WHERE gre_aw IS NOT NULL
"""
```

For each score, I checked if their value was not empty then took the average of the scores.

```
# What is their average GPA of American students in Fall 2025?
   query4 = """
   SELECT AVG(gpa)
   FROM applicants
   WHERE us_or_international = 'American'
   AND term LIKE '%Fall 2025%'
   AND gpa IS NOT NULL
   """
```

I checked upon each entry whether they were "American", had the term as "Fall 2025", and had a non-empty GPA. I took the average of the GPA for those entries that met these conditions.

In entries that had term as "Fall 2025", I counted the number of those entries that were accepted, divided by the total number of entries, then multiplied by 100 to get the percentage.

```
# What is the average GPA of applicants who applied for Fall 2025 who are Acceptances?
   query6 = """
   SELECT AVG(gpa)
   FROM applicants
   WHERE term LIKE '%Fall 2025%'
   AND status LIKE '%Accepted%'
   AND gpa IS NOT NULL
   """
```

I checked for entries with term "Fall 2025", status of "Accepted", a non-empty gpa, then took te average of the gpa of entries that met these conditions.

```
# How many entries are from applicants who applied to JHU for a masters degree in
Computer Science?
   query7 = """
   SELECT COUNT(*)
   FROM applicants
   WHERE llm_generated_program LIKE '%Computer Science'
   AND llm_generated_university LIKE '%Johns Hopkins%'
   """
```

I took the count of entries that had Ilm\_generated\_program "Computer Science" and Ilm\_generated\_university "Johns Hopkins".

```
query8 = """
    SELECT COUNT(*)
    FROM applicants
    WHERE date_added >= '2025-01-01'
    AND date_added < '2026-01-01'
    AND status LIKE '%Accepted%'
    AND llm_generated_program LIKE '%Computer Science'
    AND llm_generated_university LIKE '%Georgetown%'
    """</pre>
```

I took the total count of entries that were added in the year 2025, were accepted, and had Ilm\_generated\_program of "Computer Science" and Ilm\_generated\_university of "Georgetown".

## My Queries:

For each degree present in the table, I checked how many were accepted as a percentage and displayed them in ascending order.

For each university in the table, I checked for the non-null ones, then took the ratio of accepted to overall applications as a percentage and displayed them in ascending order. Initially, I did not have a HAVING clause but it displayed my schools with 0% acceptance rate. I came to the conclusion that these schools either were very difficult to get into or had a few applications that all got rejected, but I think the latter is true. So I just took universities with over 25 applications to make it more fair.