# Module 3

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## Applicant Metrics Insights

This application uses the The Grad Cafe applicant data for analysis.

**Update Analysis**

Refreshes results with the latest data unless a pull is running.

**Pull New GradCafe Data**

Fetches any new entries from GradCafe and adds them to your database.

**Pull Data**

Question 1: How many entries do you have in your database who have applied for Fall 2026?

**7037**

Question 2: What percentage of entries are from international students (not American or Other) (to two decimal places)?

**44.34**

Question 3: What is the average GPA, GRE, GRE V, GRE AW of applicants who provide these metrics?

avg_gpa: 3.81
avg_gre: 204.94
avg_gre_v: 160.42
avg_gre_aw: 8.51

Question 4: What is their average GPA of American students in Fall 2026?

**4.07**

Question 5: What percent of entries for Fall 2026 are Acceptances (to two decimal places)?

**24.12**

Question 6: What is the average GPA of applicants who applied for Fall 2026 who are Acceptances?

**3.80**

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Question 7: How many entries are from applicants who applied to JHU for a masters degrees in Computer Science?

7

Question 8: How many entries from 2026 are acceptances from applicants who applied to Georgetown University, MIT, Stanford University, or Carnegie Mellon University for a PhD in Computer Science?

2

Question 9: Do you numbers for question 8 change if you use LLM Generated Fields (rather than your downloaded fields)?

2

Question 10: Which top 5 universities have the highest acceptance rates in Fall 2026?

university: Chinese University of Hong Kong, Shenzhen
acceptance_rate: 100.00

university: Trump University
acceptance_rate: 100.00

university: Liberty University
acceptance_rate: 100.00

university: Shanghai University
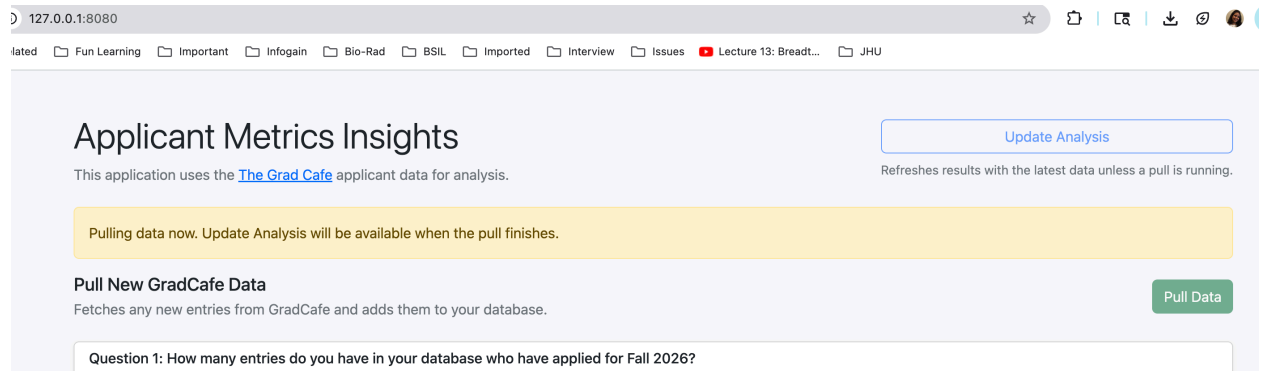acceptance_rate: 100.00

university: Georgia Tech
acceptance_rate: 100.00

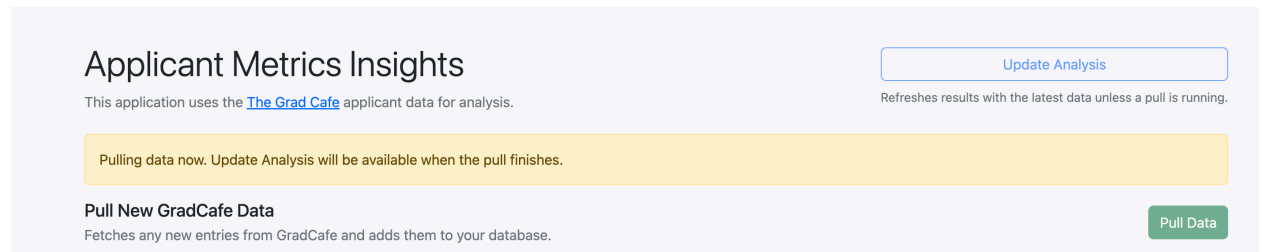Question 11: What are the top 10 distinct programs applied for Fall 2026?

(Italian) Food Science, Olive Garden Institute

4 Year PhD Programme, Sanger Institute

Accounting, Ladoke Akintola University of Technology

Accounting, University of Chicago

Accounting, University of Kentucky

Actuarial Science, Ball State University

Actuarial Science, Towson University

Adult Clinical Psychology, Penn State University

Advanced Aeronautical Engineering, Imperial College London

Aero, University of Southern California

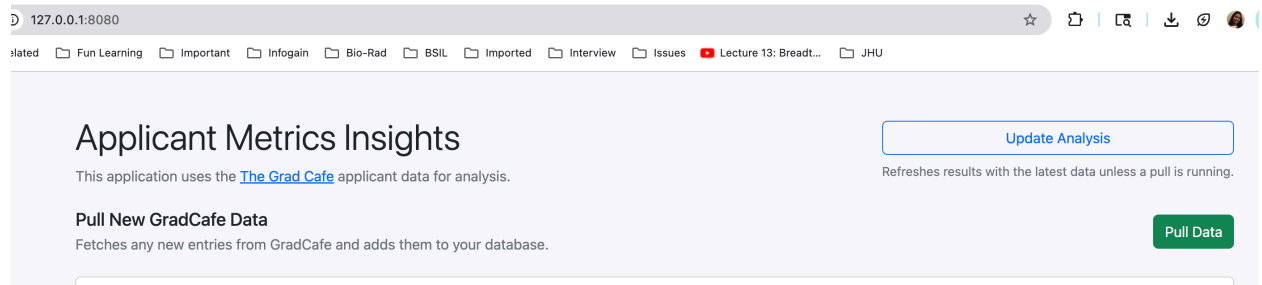Question 12: How many total applicants you have in your db?

49977

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Pulling data now. Update Analysis will be available when the pull finishes.

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# Buttons disabled during data pull

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# Message disapper after pull complete

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# Update analysis inserts and updates the pulled data

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**Question 11: What are the top 10 distinct programs applied for Fall 2026?**

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Accounting, University of Chicago

Accounting, University of Kentucky

Actuarial Science, Ball State University

Actuarial Science, Towson University

Adult Clinical Psychology, Penn State University

Advanced Aeronautical Engineering, Imperial College London

Aero, University of Southern California

**Question 12: How many total applicants you have in your db?**

49979

# See last query count updated

# CONSOLE OUTPUT

# Python query_data.py

```
(venv) richa@Richas-MacBook-Air module_3 % python query_data.py
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49979
```

# Python load_data.py

```
(venv) richa@Richas-MacBook-Air module_3 % python load_data.py
Connecting to database...
Table 'applicant' created or already exists.
Loading JSONL data...
Loaded 60 records from JSON file.
Inserting data into database...
Successfully processed 60 records (duplicates skipped).
Data loading completed successfully!

(venv) richa@Richas-MacBook-Air module_3 % █
```