

1. How many entries do you have in your database who have applied for Fall 2025?

A: 331

For the query I counted all the applicants where the term was fall 2025.

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

A: 43.53%

I counted all the applicants who chose international in us_or_international and multiplied by 100. I then divided by the count of all applicants.

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

A: GPA = 3.70, GRE = 160.82, GRE V = 158.35, GRE AW, 4.30

I took an average of each metric after filtering each metric to its max value, for GPA I used 5 as the max, for GRE and GRE V I used 170 and for GRE AW I used 6.

4. What is their average GPA of American students in Fall 2025?

A: 3.78

I filtered GPA to be less than or equal to 5 and filtered term to fall 2025 and US or international to be American. I then took the average GPA.

5. What percent of entries for Fall 2025 are Acceptances (to two decimal places)?

A: 32.33%

I filtered by term is fall 2025. I then used a case statement with matching on any application that included the word Accepted. I then multiplied that number by 100 and divided by the total count.

6. What is the average GPA of applicants who applied for Fall 2025 who are Acceptances?

A: 3.78

I filtered term to fall 2025, used matching on the word accepted, and filtered GPA to be less than or equal to 5. I then counted what was left.

7. How many entries are from applicants who applied to JHU for a master's degree?

A: 13

I filtered on any llm_generated_university that matched the string “Johns Hopkins University” and filtered degree to “Masters”. Originally, I included a filter for computer science, but after talking in office hours, I changed it to just be master’s at JHU.

8. How many entries from 2025 are acceptances from applicants who applied to Georgetown University for a PhD?

A: 0

I filtered llm_generated_university to include Georgetown, filtered degree to PhD, status to include accept, and term to include 2025. Originally, I included a filter for computer science, but after talking in office hours, I changed it to just be accepted PhD’s at Georgetown in 2025.

9. Which universities have the highest acceptance rates for international students? How about domestic?

A:

UNIVERSITY	US ACCEPTANCE RATE	INTERNATIONAL ACCEPTANCE RATE	RATE DIFFERENCE
University of Iowa	50.00%	83.33%	+33.33%
University of Houston	50.00%	80.00%	+30.00%
Berkeley College	12.50%	37.50%	+25.00%
Kent State University	60.00%	83.33%	+23.33%
University of Minnesota Twin Cities	62.50%	85.71%	+23.21%
University of Rochester	38.46%	58.82%	+20.36%
Cuny New York City College of Technology	60.00%	80.00%	+20.00%
University of Arizona	35.71%	55.56%	+19.85%
George Washington University	61.54%	80.00%	+18.46%
University of Illinois Chicago	55.56%	72.73%	+17.17%
University of Utah	50.00%	66.67%	+16.67%
Arizona State University	60.00%	76.19%	+16.19%
University of British Columbia	57.14%	72.73%	+15.59%
American University	85.71%	100.00%	+14.29%
Brandeis University	42.86%	57.14%	+14.28%
Florida State University	75.00%	87.50%	+12.50%
Washington University In St. Louis (Washu/Wustl)	30.77%	40.00%	+9.23%
Syracuse University	27.27%	36.36%	+9.09%
University of Michigan, Ann Arbor	31.25%	40.00%	+8.75%
Emory University	35.29%	43.75%	+8.46%
Ohio State University	58.33%	64.71%	+6.38%
Yale University	36.96%	43.33%	+6.37%
University of Pennsylvania	35.56%	41.88%	+6.30%
University of California, Irvine	50.00%	56.25%	+6.25%
Georgia State University	44.44%	50.00%	+5.56%
University of Georgia	75.00%	80.00%	+5.00%
Rutgers University	46.67%	50.00%	+3.33%
University of Maryland Global Campus	58.33%	61.54%	+3.21%
Stanford University	25.61%	27.91%	+2.30%
University of Texas at Austin	42.86%	44.62%	+1.76%

University of Notre Dame	31.58%	33.33%	+1.75%
University of Chicago	32.08%	33.33%	+1.25%
University of Wisconsin–Stout	42.11%	43.33%	+1.22%
Columbia College	62.50%	62.50%	N/A
New York University	62.00%	60.98%	-1.02%
University of Mary	41.18%	40.00%	-1.18%
University of California, Santa Barbara	54.55%	53.33%	-1.22%
Boston College	58.82%	57.14%	-1.68%
Harvard University	23.91%	22.22%	-1.69%
North Carolina State University	71.43%	68.18%	-3.25%
Pennsylvania State University	52.38%	48.39%	-3.99%
University of Virginia	46.15%	41.67%	-4.48%
University of Minnesota	54.55%	50.00%	-4.55%
Cornell University	47.62%	42.11%	-5.51%
Georgetown University	66.67%	60.00%	-6.67%
University of Central Florida	81.82%	75.00%	-6.82%
Columbia University	60.87%	54.00%	-6.87%
Washington University in St. Louis	50.00%	42.86%	-7.14%
University of Southern California	72.00%	63.89%	-8.11%
Purdue University	65.22%	56.67%	-8.55%
Princeton University	25.00%	15.79%	-9.21%
University of Pittsburgh	53.33%	43.75%	-9.58%
Seattle University	50.00%	40.00%	-10.00%
Rice University	45.45%	35.00%	-10.45%
Massachusetts Institute of Technology	29.17%	17.78%	-11.39%
University of North Carolina at Chapel Hill	40.00%	28.57%	-11.43%
Boston University	65.71%	54.17%	-11.54%
Carnegie Mellon University	60.87%	49.18%	-11.69%
Northeastern University	62.50%	50.00%	-12.50%
Michigan State University	72.73%	60.00%	-12.73%

California Institute of Technology	50.00%	37.04%	-12.96%
Northwestern University	48.00%	33.33%	-14.67%
University of Milan	52.48%	36.96%	-15.50%
University of California, Los Angeles	60.00%	43.75%	-16.25%
University of Oregon	56.52%	40.00%	-16.52%
University of California, Davis	46.74%	29.47%	-17.27%
University of Washington	52.94%	35.56%	-17.38%
University of Illinois Urbana-Champaign	73.08%	55.56%	-17.52%
University of California, Berkeley	39.22%	21.62%	-17.60%
Texas A&M University	100.00%	81.82%	-18.18%
Brown University	45.71%	23.68%	-22.03%
Johns Hopkins University	53.57%	30.43%	-23.14%
Ohio University-Main Campus	85.71%	62.50%	-23.21%
Duke University	57.58%	34.15%	-23.43%
Vanderbilt University	36.00%	10.00%	-26.00%
Georgia Institute of Technology	87.50%	61.36%	-26.14%
University of Massachusetts Amherst	55.56%	29.41%	-26.15%
University of Wisconsin-Madison	66.67%	38.46%	-28.21%
Oregon State University	62.50%	33.33%	-29.17%
University of California, San Diego	54.55%	23.08%	-31.47%
Indiana University	75.00%	42.86%	-32.14%
University of North Carolina (Unc)	69.23%	36.36%	-32.87%
Suny Buffalo	71.43%	37.50%	-33.93%
University of Colorado Boulder	68.75%	33.33%	-35.42%
University of California, Riverside	87.50%	50.00%	-37.50%
University of Florida	64.29%	26.67%	-37.62%
University of Washington, Seattle	50.00%	11.11%	-38.89%
University of Nebraska Omaha	80.00%	40.00%	-40.00%
University of Maryland, College Park	66.67%	23.08%	-43.59%
University of California (Ucla)	63.64%	20.00%	-43.64%
University of California (Ucsb)	80.00%	33.33%	-46.67%
University of Cincinnati	100.00%	50.00%	-50.00%
University of Delaware	100.00%	16.67%	-83.33%


I selected llm_generated_university and us or international. I calculated acceptance rates by selecting for accepted in status and multiplying by 100 and dividing by the total. I filtered to make sure I was not grabbing nulls and that I only included universities that had 5 or more applicants. I then calculated the US acceptance rate, international acceptance rate, and the difference between the two used case statements. Finally, I grouped by university making sure that I only included universities that had at least 1 US and 1 international student. I ordered by rate difference.

10. What is the average GPA of accepted students vs. rejected students by degree
A:

Masters  Accepted 3.67

Masters  Rejected 3.57

MBA  Rejected 3.40

MFA  Accepted 3.70

MFA  Rejected 3.73

Other  Accepted 3.66

Other  Rejected 3.63

PhD  Accepted 3.73

PhD  Rejected 3.74

PsyD  Accepted 3.79

PsyD  Rejected 3.90

I selected the degree, split status into accepted and rejected and other. I then filtered GPA to be less than or equal to 5, and status and degree to not null. I then used a group by to group degree and accepted, rejected, and other. Finally, I ordered by degree and admission status.

Screenshot of Terminal:

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Show many entries do you have in your database who have applied for Fall 2025?
[[0,]]

What percentage of entries are from international students (not American or Other)
[(Decimal('43.53'),)]

What is the average GPA, GRE, GRE V, GRE AW of applicants who provide these metrics?
[('GPA', 2793, Decimal('3.78')), ('GRE', 1726, Decimal('168.82')), ('GRE Verbal', 1789, Decimal('158.35')), ('GRE Analytical Writing', 1999, Decimal('4.30'))]

What is their average GPA of American students in Fall 2025?
[(Decimal('3.78'),)]

What percent of entries for Fall 2025 are Acceptances (to two decimal places)?
[(Decimal('32.33'),)]

What is the average GPA of applicants who applied for Fall 2025 who are Acceptances?
[(Decimal('3.78'),)]

How many entries are from applicants who applied to JHU for a masters degrees?
[[13,]]

How many entries from 2025 are acceptances from applicants who applied to Georgetown University for a PhD?
[[6,]]

Which universities have the highest acceptance rates for interational students? How about domestic?
[('American University', None, Decimal('108.00')), None], ('Arizona State University', None, Decimal('76.19')), None], ('Berkeley College', None, Decimal('37.50')), None], ('Boston College', None, Decimal('57.14')), None], ('Boston Universit
y', None, Decimal('54.17')), None], ('Brandeis University', None, Decimal('57.14')), None], ('Brown University', None, Decimal('23.68')), None], ('California Institute of Technology', None, Decimal('37.04')), None], ('Carnegie Mellon Universi
ty', None, Decimal('49.18')), None], ('Columbia College', None, Decimal('62.50')), None], ('Columbia University', None, Decimal('54.00')), None], ('Cornell University', None, Decimal('42.11')), None], ('Cuny New York City College of Technolog
y', None, Decimal('80.00')), None], ('Duke University', None, Decimal('34.15')), None], ('Emory University', None, Decimal('43.75')), None], ('Florida State University', None, Decimal('87.50')), None], ('George Washington University', None, D
ecimal('80.00')), None], ('Georgetown University', None, Decimal('60.00')), None], ('Georgia Institute of Technology', None, Decimal('61.36')), None], ('Georgia State University', None, Decimal('50.00')), None], ('Harvard University', None, D
ecimal('22.22')), None], ('Indiana University', None, Decimal('42.85')), None], ('Johns Hopkins University', None, Decimal('28.43')), None], ('Kent State University', None, Decimal('83.33')), None], ('Massachusetts Institute of Technology', N
one, Decimal('17.78')), None], ('Michigan State University', None, Decimal('60.00')), None], ('New York University', None, Decimal('60.00')), None], ('North Carolina State University', None, Decimal('68.18')), None], ('Northeastern University
', None, Decimal('50.00')), None], ('Northwestern University', None, Decimal('33.33')), None], ('Ohio State University', None, Decimal('64.71')), None], ('Ohio University-Main Campus', None, Decimal('62.50')), None], ('Oregon State University
', None, Decimal('33.33')), None], ('Pennsylvania State University', None, Decimal('48.39')), None], ('Princeton University', None, Decimal('15.79')), None], ('Purdue University', None, Decimal('56.67')), None], ('Rice University', None, Deci
mal('55.00')), None], ('Rutgers University', None, Decimal('50.00')), None], ('Seattle University', None, Decimal('40.00')), None], ('Stanford University', None, Decimal('27.91')), None], ('Suny Buffalo', None, Decimal('37.50')), None], ('Syrac
use University', None, Decimal('26.25')), None], ('Texas A&M University', None, Decimal('81.82')), None], ('University of Arizona', None, Decimal('55.56')), None], ('University of British Columbia', None, Decimal('72.73')), None], ('Universi
ty of California (Ucla)', None, Decimal('28.00')), None], ('University of California (Ucsb)', None, Decimal('33.33')), None], ('University of California, Berkeley', None, Decimal('21.62')), None], ('University of California, Davis', None, De
cimal('29.47')), None], ('University of California, Irvine', None, Decimal('56.25')), None], ('University of California, Los Angeles', None, Decimal('43.75')), None], ('University of California, Riverside', None, Decimal('50.00')), None], ('U
niversity of California, San Diego', None, Decimal('23.08')), None], ('University of California, Santa Barbara', None, Decimal('53.33')), None], ('University of Central Florida', None, Decimal('75.00')), None], ('University of Chicago', None
, Decimal('33.33')), None], ('University of Cincinnati', None, Decimal('50.00')), None], ('University of Colorado Boulder', None, Decimal('33.33')), None], ('University of Delaware', None, Decimal('16.67')), None], ('University of Florida', N
one, Decimal('26.67')), None], ('University of Georgia', None, Decimal('80.00')), None], ('University of Houston', None, Decimal('80.00')), None], ('University of Illinois Chicago', None, Decimal('72.73')), None], ('University of Illinois Urb
ana-Champaign', None, Decimal('55.56')), None], ('University of Iowa', None, Decimal('83.33')), None], ('University of Mary', None, Decimal('40.00')), None], ('University of Maryland Global Campus', None, Decimal('61.54')), None], ('Universit
y of Maryland, College Park', None, Decimal('23.08')), None], ('University of Massachusetts Amherst', None, Decimal('29.41')), None], ('University of Michigan, Ann Arbor', None, Decimal('40.00')), None], ('University of Milan', None, Decimal
('36.86')), None], ('University of Minnesota', None, Decimal('50.00')), None], ('University of Minnesota Twin Cities', None, Decimal('85.71')), None], ('University of Nebraska Omaha', None, Decimal('40.00')), None], ('University of North Caro
lina (Unc)', None, Decimal('36.36')), None], ('University of North Carolina at Chapel Hill', None, Decimal('28.57')), None], ('University of Notre Dame', None, Decimal('33.33')), None], ('University of Oregon', None, Decimal('40.00')), None],
('University of Pennsylvania', None, Decimal('41.86')), None], ('University of Pittsburgh', None, Decimal('43.75')), None], ('University of Rochester', None, Decimal('58.82')), None], ('University of Southern California', None, Decimal('63.
89')), None], ('University of Texas at Austin', None, Decimal('44.62')), None], ('University of Utah', None, Decimal('66.67')), None], ('University of Virginia', None, Decimal('41.67')), None], ('University of Washington', None, Decimal('35.5
6')), None], ('University of Washington, Seattle', None, Decimal('11.11')), None], ('University of Wisconsin-Madison', None, Decimal('38.46')), None], ('University of Wisconsin-Stout', None, Decimal('43.33')), None], ('Vanderbilt University',
None, Decimal('18.00')), None], ('Washington University in St. Louis', None, Decimal('42.86')), None], ('Washington University in St. Louis (Washu/Wustl)', None, Decimal('40.00')), None], ('Yale University', None, Decimal('43.33')), None]]

What is the average GPA of accepted students vs. rejected students by degree?
[('Masters', 'Accepted', 660, Decimal('3.67')), ('Masters', 'Rejected', 234, Decimal('3.57')), ('MBA', 'Rejected', 1, Decimal('3.40')), ('MBA', 'Accepted', 18, Decimal('3.78')), ('MFA', 'Rejected', 13, Decimal('3.73')), ('Other', 'Accept
ed', 31, Decimal('3.66')), ('Other', 'Rejected', 7, Decimal('3.63')), ('PhD', 'Accepted', 632, Decimal('3.73')), ('PhD', 'Rejected', 685, Decimal('3.74')), ('PsyD', 'Accepted', 3, Decimal('3.79')), ('PsyD', 'Rejected', 1, Decimal('3.90'))
]

(venv) PS C:\Users\blord\Documents\Grad School\Johns Hopkins\Classes\Modern Software Concepts in Python >
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