



Does going to university in a different country affect your mental health? A Japanese international university surveyed its students in 2018 and published a study the following year that was approved by several ethical and regulatory boards.

The study found that international students have a higher risk of mental health difficulties than the general population, and that social connectedness (belonging to a social group) and acculturative stress (stress associated with joining a new culture) are predictive of depression.

Explore the `students` data using PostgreSQL to find out if you would come to a similar conclusion for international students and see if the length of stay is a contributing factor.

Here is a data description of the columns you may find helpful.

Field Name	Description
<code>inter_dom</code>	Types of students (international or domestic)
<code>japanese_cate</code>	Japanese language proficiency
<code>english_cate</code>	English language proficiency
<code>academic</code>	Current academic level (undergraduate or graduate)
<code>age</code>	Current age of student
<code>stay</code>	Current length of stay in years
<code>todep</code>	Total score of depression (PHQ-9 test)
<code>tosc</code>	Total score of social connectedness (SCS test)
<code>toas</code>	Total score of acculturative stress (ASISS test)

 Projects Data    DataFrame as `students`

-- Run this code to view the data in students

```
SELECT *  
FROM students;
```

...	↑↓	i...	...	↑↓	...	↑↓	...	↑↓	...	↑↓	...	↑↓	s...	...	↑↓	...	↑↓	japane...	...	↑↓	...	↑↓	engli...	...	↑↓	...	↑↓	...
0		Inter		SEA		Male		Grad		24		4		5		Long		3		Average		5		High				Yes
1		Inter		SEA		Male		Grad		28		5		1		Short		4		High		4		High				No
2		Inter		SEA		Male		Grad		25		4		6		Long		4		High		4		High		Yes		Yes
3		Inter		EA		Female		Grad		29		5		1		Short		2		Low		3		Average		No		No
4		Inter		EA		Female		Grad		28		5		1		Short		1		Low		3		Average		Yes		No
5		Inter		SEA		Male		Grad		24		4		6		Long		3		Average		4		High		Yes		No
6		Inter		SA		Male		Grad		23		4		1		Short		3		Average		5		High		Yes		No
7		Inter		SEA		Female		Grad		30		5		2		Medium		1		Low		1		Low		Yes		Yes
8		Inter		SEA		Female		Grad		25		4		4		Long		4		High		4		High		No		No
9		Inter		Others		Male		Grad		31		5		2		Medium		1		Low		4		High		Yes		Yes
10		Inter		Others		Female		Grad		28		5		1		Short		1		Low		2		Low		No		Yes
11		Inter		SEA		Female		Grad		31		5		1		Short		1		Low		4		High		Yes		Yes
12		Inter		SA		Male		Grad		29		5		1		Short		1		Low		4		High		Yes		Yes
13		Inter		EA		Male		Grad		23		4		1		Short		3		Average		4		High		Yes		Yes
14		Inter		SEA		Female		Grad		31		5		1		Short		1		Low		3		Average		Yes		No
15		Inter		Others		Female		Grad		30		5		1		Short		1		Low		5		High		Yes		Yes

Rows: 286

 Expand

Projects Data DataFrame as df

```
-- Start coding here...
select stay, count(*) as count_int, round(avg(df.todep)::numeric,2) as average_phq, round(avg(df.tosc)::numeric,2) as average_scs,
round(avg(df.toas)::numeric, 2) as average_as
from public.students df
where df.inter_dom = 'Inter'
group by df.stay
order by df.stay desc
```

index	...	↑↓	stay	...	↑↓	count_int	...	↑↓	average_phq	...	↑↓	average_scs	...	↑↓	average_as	...	↑↓	
			0			10			1			13			32			50
			1			8			1			10			44			65
			2			7			1			4			48			45
			3			6			3			6			38			58.67
			4			5			1			0			34			91
			5			4			14			8.57			33.93			87.71
			6			3			46			9.09			37.13			78
			7			2			39			8.28			37.08			77.67
			8			1			95			7.48			38.11			72.8

Rows: 9 ⌵ Expand

From the output table, we can see that

- the average score of the PHQ test increases as the length of stay rises
- the score of social connectedness and acculturative stress don't show strong relative with the score of PHQ

How likely are you to recommend DataLab to a friend or co-worker?



Not at all likely 0 1 2 3 4 5 6 7 8 9 10 Extremely likely

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