



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 (ASIIS test)

Projects Data DataFrame as students

```
-- Run this code to view the data in students
SELECT *
FROM students;
```

...	↑↓	i..	...	↑↓	...	↑↓	...	↑↓	...	↑↓	...	↑↓	...	↑↓	s.	...	↑↓	...	↑↓	japane...	...	↑↓	...	↑↓	englis...	...
0	Inter	SEA	Male	Grad		24		4		5	Long		3	Average			5	High								
1	Inter	SEA	Male	Grad		28		5		1	Short		4	High			4	High								
2	Inter	SEA	Male	Grad		25		4		6	Long		4	High			4	High								
3	Inter	EA	Female	Grad		29		5		1	Short		2	Low			3	Average								
4	Inter	EA	Female	Grad		28		5		1	Short		1	Low			3	Average								
5	Inter	SEA	Male	Grad		24		4		6	Long		3	Average			4	High								
6	Inter	SA	Male	Grad		23		4		1	Short		3	Average			5	High								
7	Inter	SEA	Female	Grad		30		5		2	Medium		1	Low			1	Low								
8	Inter	SEA	Female	Grad		25		4		4	Long		4	High			4	High								
9	Inter	Others	Male	Grad		31		5		2	Medium		1	Low			4	High								
10	Inter	Others	Female	Grad		28		5		1	Short		1	Low			2	Low								
11	Inter	SEA	Female	Grad		31		5		1	Short		1	Low			4	High								
12	Inter	SA	Male	Grad		29		5		1	Short		1	Low			4	High								
13	Inter	EA	Male	Grad		23		4		1	Short		3	Average			4	High								
14	Inter	SEA	Female	Grad		31		5		1	Short		1	Low			3	Average								
15	Inter	Others	Female	Grad		30		5		1	Short		1	Low			5	High								

Rows: 286

[Expand](#)

Projects Data DataFrame as df

```
-- Start coding here...
SELECT s.stay,
       COUNT(*) AS count_int,
       ROUND(AVG(s.todep),2) AS average_phq,
       ROUND(AVG(s.tosc),2) AS average_scs,
       ROUND(AVG(s.toas),2) AS average_as
FROM students s
WHERE s.stay >= 1 AND s.inter_dom = 'Inter'
GROUP BY s.stay
ORDER BY s.stay DESC
```

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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

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