datalab

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
inter_dom	Types of students (international or domestic)
japanese_cate	Japanese language proficiency
english_cate	English language proficiency
academic	Current academic level (undergraduate or graduate)
age	Current age of student
stay	Current length of stay in years
todep	Total score of depression (PHQ-9 test)
tosc	Total score of social connectedness (SCS test)
toas	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	Hig
1	Inter	SEA	Male	Grad	28	5	1	Short	4	High	4	Hig
2	Inter	SEA	Male	Grad	25	4	6	Long	4	High	4	Hig
3	Inter	EA	Female	Grad	29	5	1	Short	2	Low	3	Ave
4	Inter	EA	Female	Grad	28	5	1	Short	1	Low	3	Ave
5	Inter	SEA	Male	Grad	24	4	6	Long	3	Average	4	Hig
6	Inter	SA	Male	Grad	23	4	1	Short	3	Average	5	Hig
7	Inter	SEA	Female	Grad	30	5	2	Medium	1	Low	1	Lov
8	Inter	SEA	Female	Grad	25	4	4	Long	4	High	4	Hig
9	Inter	Others	Male	Grad	31	5	2	Medium	1	Low	4	Hig
10	Inter	Others	Female	Grad	28	5	1	Short	1	Low	2	Lov
11	Inter	SEA	Female	Grad	31	5	1	Short	1	Low	4	Hig
12	Inter	SA	Male	Grad	29	5	1	Short	1	Low	4	Hig
13	Inter	EA	Male	Grad	23	4	1	Short	3	Average	4	Hig
14	Inter	SEA	Female	Grad	31	5	1	Short	1	Low	3	Ave
15	Inter	Others	Female	Grad	30	5	1	Short	1	Low	5	Hig

Rows: 286   ↗ Expand

```sql
SELECT
    stay,
    COUNT(stay) AS count_int,
    ROUND(AVG(todep), 2) AS average_phq,
    ROUND(AVG(tosc), 2) AS average_scs,
    ROUND(AVG(toas), 2) AS average_as
FROM students
WHERE stay IS NOT NULL AND inter_dom = 'Inter'
GROUP BY stay
ORDER BY stay DESC
```

index	stay	count_int	average_phq	average_s
0	10	1	13	
1	8	1	10	
2	7	1	4	
3	6	3	6	
4	5	1	0	
5	4	14	8.57	
6	3	46	9.09	
7	2	39	8.28	
8	1	95	7.48	

Rows: 9   ⤢ Expand