

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. | ... | ↑↓ | ... | | | |
|-----|----|-------|-----|----|--------|----|-----|--------|-----|----|------|----|-----|----|----|-----|----|-----|---|--------|--|
| 0 | | Inter | | | SEA | | | Male | | | Grad | | | 24 | | | 4 | | 5 | Long | |
| 1 | | Inter | | | SEA | | | Male | | | Grad | | | 28 | | | 5 | | 1 | Short | |
| 2 | | Inter | | | SEA | | | Male | | | Grad | | | 25 | | | 4 | | 6 | Long | |
| 3 | | Inter | | | EA | | | Female | | | Grad | | | 29 | | | 5 | | 1 | Short | |
| 4 | | Inter | | | EA | | | Female | | | Grad | | | 28 | | | 5 | | 1 | Short | |
| 5 | | Inter | | | SEA | | | Male | | | Grad | | | 24 | | | 4 | | 6 | Long | |
| 6 | | Inter | | | SA | | | Male | | | Grad | | | 23 | | | 4 | | 1 | Short | |
| 7 | | Inter | | | SEA | | | Female | | | Grad | | | 30 | | | 5 | | 2 | Medium | |
| 8 | | Inter | | | SEA | | | Female | | | Grad | | | 25 | | | 4 | | 4 | Long | |
| 9 | | Inter | | | Others | | | Male | | | Grad | | | 31 | | | 5 | | 2 | Medium | |

 Projects Data DataFrame as df

```
-- Start coding here...
SELECT stay,
       COUNT(inter_dom) 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
```

| ind... | ... | ↑↓ | stay | ... | ↑↓ | count_int | ... | ↑↓ | average_phq | ... | ↑↓ | average_scs | ... | ↑↓ | a' |
|--------|-----|----|------|-----|----|-----------|-----|----|-------------|-----|------|-------------|-----|-------|----|
| | | 0 | | | 10 | | | 1 | | | 13 | | | 32 | |
| | | 1 | | | 8 | | | 1 | | | 10 | | | 44 | |
| | | 2 | | | 7 | | | 1 | | | 4 | | | 48 | |
| | | 3 | | | 6 | | | 3 | | | 6 | | | 38 | |
| | | 4 | | | 5 | | | 1 | | | 0 | | | 34 | |
| | | 5 | | | 4 | | | 14 | | | 8.57 | | | 33.93 | |
| | | 6 | | | 3 | | | 46 | | | 9.09 | | | 37.13 | |
| | | 7 | | | 2 | | | 39 | | | 8.28 | | | 37.08 | |
| | | 8 | | | 1 | | | 95 | | | 7.48 | | | 38.11 | |

Rows: 9 