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) |

```
-- Run this code to save the CSV file as students
In [33]:
         SELECT *
         FROM 'students.csv';
```

Out[33]:

| | inter_dom | region | gender | academic | age | age_cate | stay | stay_cate | japanese | japanese_c |
|-----|-----------|--------|--------|----------|------|----------|------|-----------|----------|------------|
| 0 | Inter | SEA | Male | Grad | 24.0 | 4.0 | 5.0 | Long | 3.0 | Avera |
| 1 | Inter | SEA | Male | Grad | 28.0 | 5.0 | 1.0 | Short | 4.0 | Н |
| 2 | Inter | SEA | Male | Grad | 25.0 | 4.0 | 6.0 | Long | 4.0 | Н |
| 3 | Inter | EA | Female | Grad | 29.0 | 5.0 | 1.0 | Short | 2.0 | L |
| 4 | Inter | EA | Female | Grad | 28.0 | 5.0 | 1.0 | Short | 1.0 | L |
| | | | | | | | | | | |
| 281 | None | None | None | None | NaN | NaN | NaN | None | NaN | No |
| 282 | None | None | None | None | NaN | NaN | NaN | None | NaN | No |
| 283 | None | None | None | None | NaN | NaN | NaN | None | NaN | No |
| 284 | None | None | None | None | NaN | NaN | NaN | None | NaN | No |
| 285 | None | None | None | None | NaN | NaN | NaN | None | NaN | No |

286 rows × 50 columns

```
In [34]: -- summary stats
         SELECT inter_dom,
                 COUNT(*) AS total_records,
                 ROUND(AVG(todep)) AS avg depression score,
                 ROUND(AVG(tosc)) AS avg_social_connectedness_score,
                 ROUND(AVG(toas)) AS avg_acculturative_stress_score
         FROM students
         WHERE inter dom NOT LIKE 'null'
         GROUP BY 1;
```

Out[34]:

| | inter_dom | total_records | avg_depression_score | avg_social_connectedness_score | avg_accultura |
|---|-----------|---------------|----------------------|--------------------------------|---------------|
| 0 | Inter | 201 | 8.0 | 37.0 | |
| 1 | Dom | 67 | 9.0 | 38.0 | |

Out[35]:

| | stay | average_phq | average_scs | average_as |
|---|------|-------------|-------------|------------|
| 0 | 10.0 | 13.00 | 32.00 | 50.00 |
| 1 | 8.0 | 10.00 | 44.00 | 65.00 |
| 2 | 7.0 | 4.00 | 48.00 | 45.00 |
| 3 | 6.0 | 6.00 | 38.00 | 58.67 |
| 4 | 5.0 | 0.00 | 34.00 | 91.00 |
| 5 | 4.0 | 8.57 | 33.93 | 87.71 |
| 6 | 3.0 | 9.09 | 37.13 | 78.00 |
| 7 | 2.0 | 8.28 | 37.08 | 77.67 |
| 8 | 1.0 | 7.48 | 38.11 | 72.80 |