PROJECT: ANALYZING STUDENTS' MENTAL HEALTH

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 stay,
       COUNT(*) FILTER (WHERE inter_dom = 'Inter') as count_int,
       AVG(todep) as average_phq,
       AVG(tosc) as average_scs,
       AVG(toas) as average_as
FROM students
GROUP BY stay
ORDER BY stay DESC
LIMIT 9;
```

index	stay	count_int	average_phq	average_scs	average_as
0		0			
1	10	1	13	32	
2	8	1	10	44	
3	7	1	4	48	
4	6	3	6	38	58.6666
5	5	1	7.6666666667	34	
6	4	14	7.9565217391	35	78.7391
7	3	46	8.8695652174	37.7826086957	71.347
8	2	39	8.5769230769	37.0769230769	74.8653

Rows: 9 Expand

Projects Data DataFrame as `df`

```
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 inter_dom = 'Inter'
GROUP BY stay
ORDER BY stay DESC;
```

index	stay	count_int	average_phq	average_scs	average_as
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 Expand