



Introduction

In today's highly competitive and fast-paced academic environment, students face immense pressure — academically, emotionally, and socially. Despite this, mental health is still a topic often overlooked in data discussions. Through this project, I aimed to explore student well-being using SQL alone, and understand how stress, sleep, lifestyle, and emotional conditions interact with academic performance.

This is not just a technical exercise — it's an effort to bring empathy into data.



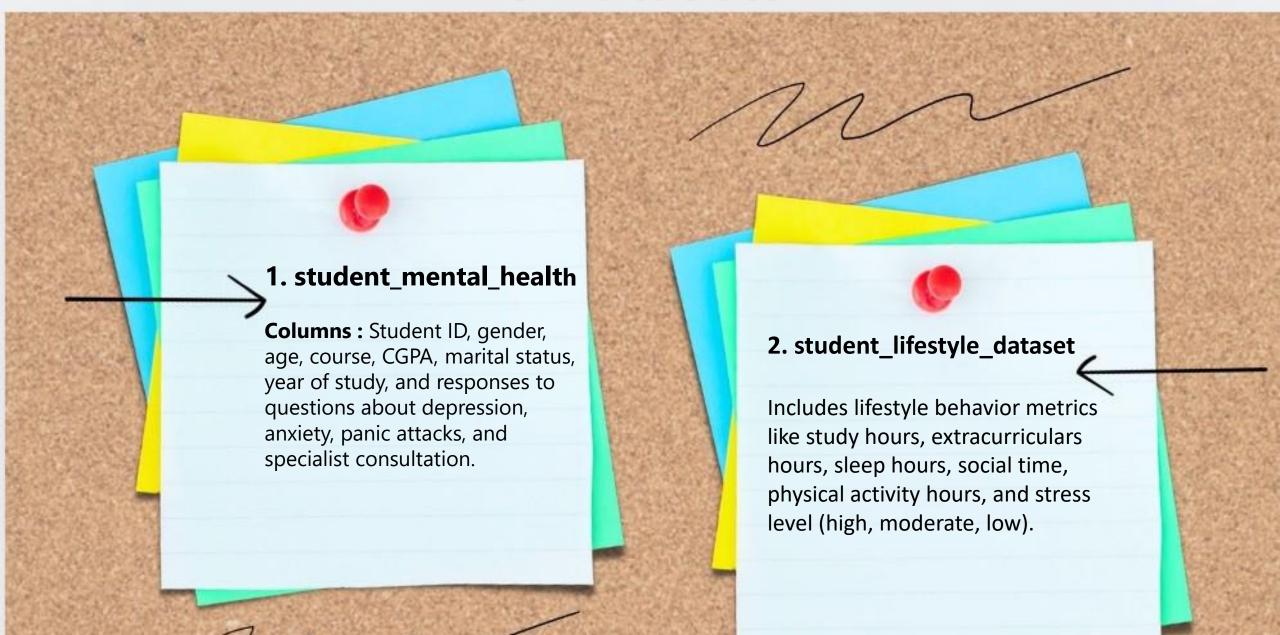
Objective

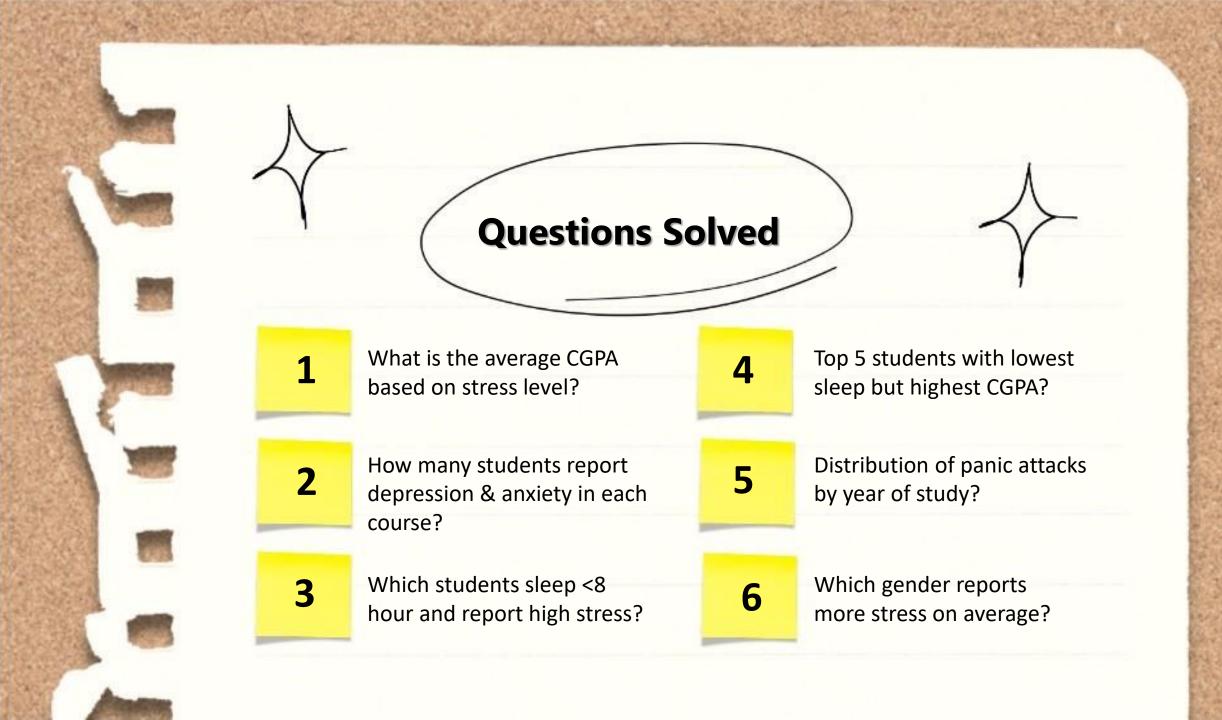
The core objective of this project is to analyze and understand patterns in student mental health using structured SQL queries only — no BI tools, no Python — just logic and data.

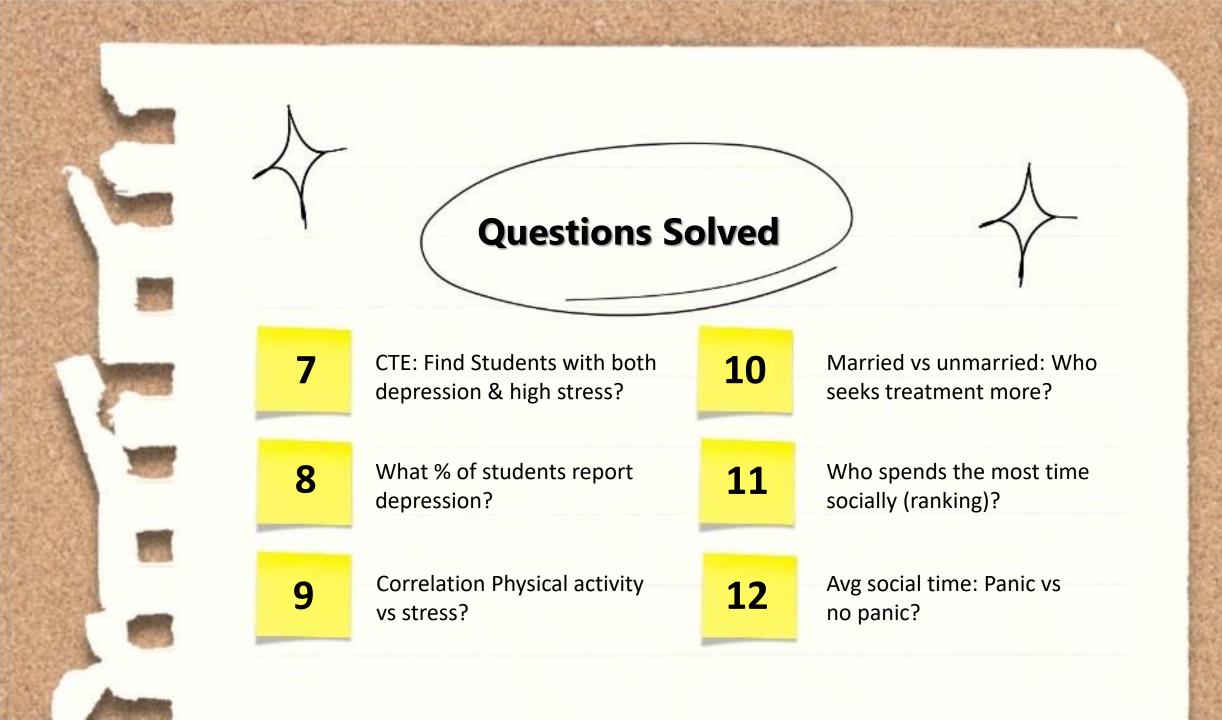
Specifically, the project aims to:

- Discover how mental health indicators like depression, anxiety, and panic attacks relate to academics.
- Study lifestyle habits such as sleep, social time, and physical activity.
- Use SQL techniques like joins, CTEs, and window functions to extract deep insights.
- Build awareness around hidden signals that may need intervention or policy support.

The Datasets

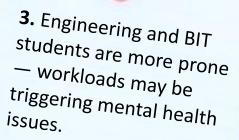


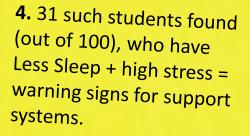






- 1. Students under high stress scored the lowest CGPA. Academic pressure affects performance silently.
- 2. 35% of students report having depression that's more than 1 in 3. The issue is more common than assumed.







- **5.** High performers may sacrifice sleep suggesting burnout behind the grades.
- **6.** First-years faced the most panic attacks. The initial transition appears mentally overwhelming.



- **7.** Females tend to report higher stress on average showing differing emotional exposure.
- **8.** 17 students out of 100, have both depression & anxiety— early intervention could be crucial for them.



- **9.** Lower activity hours correlated with higher stress movement helps mental clarity.
- **10.** Married students were more likely to seek specialist help possibly due to better awareness.



- 11. Social time varied drastically some spend less than an hour, others up to 6.
- 12. Students with panic attacks spend less socially isolation may worsen symptoms.

Sample SQL code snippets

```
SELECT M.STUDENT_ID, L.SOCIAL_HOURS_PER_DAY, M.`DO YOU HAVE PANIC ATTACK?`,

ROUND(AVG(L.SOCIAL_HOURS_PER_DAY) OVER(PARTITION BY M.`DO YOU HAVE PANIC ATTACK?`),2) AS AVG_SOCIAL_BY_GROUP

FROM STUDENT_MENTAL_HEALTH M JOIN STUDENT_LIFESTYLE_DATASET L ON M.STUDENT_ID = L.STUDENT_ID

ORDER BY L.SOCIAL_HOURS_PER_DAY DESC;
```

```
SELECT `WHAT IS YOUR COURSE?`,

COUNT(CASE WHEN `DO YOU HAVE DEPRESSION?` ="YES" THEN 1 END) AS DEPRESSION_COUNT,

COUNT(CASE WHEN `DO YOU HAVE ANXIETY?` ="YES" THEN 1 END) AS ANXIETY_COUNT

FROM STUDENT_MENTAL_HEALTH

GROUP BY `WHAT IS YOUR COURSE?`

ORDER BY DEPRESSION_COUNT DESC , ANXIETY_COUNT DESC;
```

```
SELECT L.STUDENT_ID, L.SLEEP_HOURS_PER_DAY, M.`WHAT IS YOUR CGPA?`

FROM STUDENT_LIFESTYLE_DATASET L JOIN STUDENT_MENTAL_HEALTH M ON L.STUDENT_ID = M.STUDENT_ID

ORDER BY L.SLEEP_HOURS_PER_DAY ASC , M.`WHAT IS YOUR CGPA?` DESC

LIMIT 5;
```

```
SELECT M. CHOOSE YOUR GENDER',

AVG(CASE

WHEN L.STRESS_LEVEL = "HIGH" THEN 1

WHEN L.STRESS_LEVEL = "MODERATE" THEN 0.5

ELSE 0 END) AS AVG_STRESS_SCORE

FROM STUDENT_MENTAL_HEALTH M JOIN STUDENT_LIFESTYLE_DATASET L ON M.STUDENT_ID = L.STUDENT_ID

GROUP BY M. CHOOSE YOUR GENDER';
```

```
WITH DEPRESSED_STRESSED AS (
    SELECT M.STUDENT_ID, M.`WHAT IS YOUR COURSE?`, M.`DO YOU HAVE DEPRESSION?`, L.STRESS_LEVEL
    FROM STUDENT_MENTAL_HEALTH M JOIN STUDENT_LIFESTYLE_DATASET L ON M.STUDENT_ID = L.STUDENT_ID
    WHERE M.`DO YOU HAVE DEPRESSION?` = "YES" AND L.STRESS_LEVEL ="HIGH"
)
SELECT * FROM DEPRESSED_STRESSED;
```



Solutions

Prioritize Mental
Health in Academic
Programs

Colleges should provide tailored support for first-year and engineering students, as they're most vulnerable to early stress and panic symptoms.

Physical activity and social engagement must be encouraged through structured programs — both are clearly linked with lower stress levels in this dataset.

Normalize Treatment and Counseling

There's a significant gap in students seeking specialist help. Institutions must work to destigmatize therapy and offer confidential, accessible resources.





This project proves that SQL isn't just for numbers — it's a tool that can uncover powerful social insights. By connecting CGPA with sleep, or panic attacks with social time, we begin to see the invisible weight students carry. The goal here wasn't just to query data — it was to understand people. And that's what makes this project meaningful.

Tool Used: MySQL Workbench (for querying, analysis, and data exploration)

Key Skills Demonstrated: SQL (Joins, CTEs, Window Functions, Group By, CASE, WHERE, Order By, Aggregations)



