Below are detailed **SQL question ideas**, categorized for your **portfolio project**, each aimed to showcase a specific **data analysis concept** (aggregations, joins, conditions, window functions, etc.). You can implement these with SQLite, PostgreSQL, MySQL, or any engine of your choice and document the queries and findings on your GitHub.

### 🧮 1. Descriptive Statistics

**Q1.** What is the average daily social media usage by academic level?  
 **Q2.** What is the average mental health score by gender?  
 **Q3.** Count how many students use each social media platform most frequently.  
 **Q4.** What’s the average addiction score for students who report that social media affects their academic performance?

### 📊 2. Behavioral Insights

**Q5.** What is the correlation between average daily usage and mental health score? *(Use Python visualization for this, SQL for data prep)*  
 **Q6.** What is the average sleep hours for students addicted (score > 7) to social media vs those not addicted?  
 **Q7.** How does relationship status influence conflicts over social media?

### 🌍 3. Demographic Breakdown

**Q8.** Which country has the highest average addiction score?  
 **Q9.** Show the average mental health score by country and gender.  
 **Q10.** Count of students from each academic level by country.

### ⚖️ 4. Impact Analysis

**Q11.** Compare average academic-affecting users vs non-affecting in terms of:

* Sleep hours
* Usage hours
* Addiction score

**Q12.** For each academic level, find the percentage of students who said social media affects their academics.

### 🧠 5. Advanced SQL (Window Functions / Ranking)

**Q13.** Rank students within their academic level by addiction score.  
 **Q14.** For each country, find the student with the highest daily usage.  
 **Q15.** Use a window function to calculate the average addiction score within each academic level.

### 📈 6. Custom Segmentation

**Q16.** Categorize students into "Low", "Moderate", and "High" social media users based on Avg\_Daily\_Usage\_Hours:

* Low: < 3 hrs
* Moderate: 3–6 hrs
* High: > 6 hrs  
   Then show how these categories correlate with mental health scores.

### 📋 7. Hypothetical Dashboards

You can simulate or actually build a dashboard in **Looker Studio, Tableau, or Power BI** using SQL as backend.

**Metrics to visualize:**

* Usage hours by platform
* Sleep vs addiction score scatter plot
* Platform usage by gender
* Academic performance vs addiction levels

### 🛠️ Next Steps for GitHub Documentation

1. Create a README.md with:
   1. Project title
   2. Overview and dataset description
   3. Tools used
   4. Objective
2. Create folders for:
   1. /sql\_queries — with .sql files or .md documentation
   2. /visualizations — graphs or dashboards
   3. /insights\_summary — your interpretations and key findings
3. Optional:
   1. Include a Jupyter Notebook for data exploration with SQL + pandas.
   2. Build a .csv cleaner and uploader with Python.

Would you like me to generate the actual SQL code for any of these questions or help you set up the GitHub documentation structure?