Week 3: Grouping Your Expenses for Smarter Spending
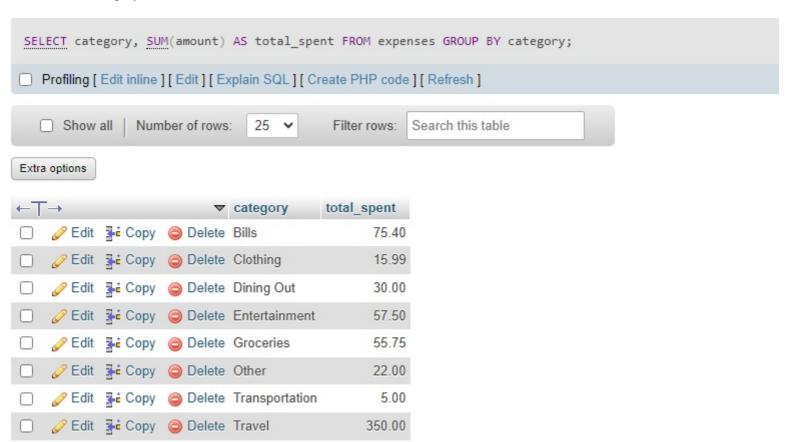
Challenges:

1.1. Total Spent per Category:

Write a query to find the total amount you spent in each category (Groceries, Entertainment, etc.). Hint: Use GROUP BY category and SUM(amount).

SELECT category, SUM(amount) AS total_spent

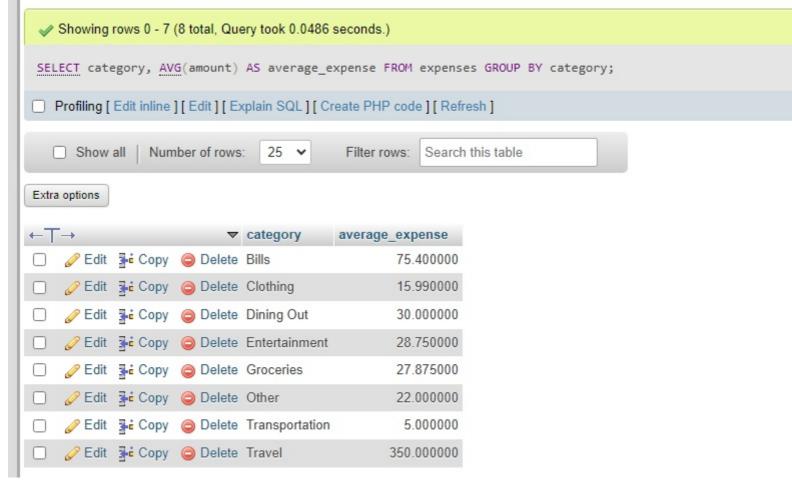FROM expenses

GROUP BY category;

```
SELECT category, SUM(amount) AS total_spent FROM expenses GROUP BY category;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table

Extra options

	category	total_spent
☐ ✏ Edit ⊞ Copy ⊖ Delete	Bills	75.40
☐ ✏ Edit ⊞ Copy ⊖ Delete	Clothing	15.99
☐ ✏ Edit ⊞ Copy ⊖ Delete	Dining Out	30.00
☐ ✏ Edit ⊞ Copy ⊖ Delete	Entertainment	57.50
☐ ✏ Edit ⊞ Copy ⊖ Delete	Groceries	55.75
☐ ✏ Edit ⊞ Copy ⊖ Delete	Other	22.00
☐ ✏ Edit ⊞ Copy ⊖ Delete	Transportation	5.00
☐ ✏ Edit ⊞ Copy ⊖ Delete	Travel	350.00

1.2. Average Expense per Category:

Now, let's see the average cost for each category. Write a query to find the average expense amount for each category. Hint: Use GROUP BY category and AVG(amount).

SELECT category, AVG(amount) AS average_expense

FROM expenses

GROUP BY category;

Showing rows 0 - 7 (8 total, Query took 0.0486 seconds.)

```sql
SELECT category, AVG(amount) AS average_expense FROM expenses GROUP BY category;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 ⌄ Filter rows: Search this table

Extra options

				category	average_expense
☐	Edit	Copy	Delete	Bills	75.400000
☐	Edit	Copy	Delete	Clothing	15.990000
☐	Edit	Copy	Delete	Dining Out	30.000000
☐	Edit	Copy	Delete	Entertainment	28.750000
☐	Edit	Copy	Delete	Groceries	27.875000
☐	Edit	Copy	Delete	Other	22.000000
☐	Edit	Copy	Delete	Transportation	5.000000
☐	Edit	Copy	Delete	Travel	350.000000

Bonus Challenge (Optional):

Are you curious about your top spending categories? Modify your query from Challenge 1 to show only the top 3 (or a chosen number) categories where you spend the most.

SELECT category, total_spent

FROM (

SELECT category, SUM(amount) AS total_spent

FROM expenses

GROUP BY category

) AS subquery

ORDER BY total_spent DESC

LIMIT 3;

✔ Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.)

```sql
SELECT category, total_spent FROM ( SELECT category, SUM(amount) AS total_spent FROM expenses GROUP BY categ
DESC LIMIT 3;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

category	total_spent ▼ 1
Travel	350.00
Bills	75.40
Entertainment	57.50

Query results operations

🖨 Print   🔀 Copy to clipboard   📧 Export   📊 Display chart   🗔 Create view