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Assignment: Week 3: Grouping Your Expenses for Smarter Spending

1.1. Total Spent per Category:

SQL

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

SELECT category, SUM(amount) AS total_spent: This clause specifies the columns you want to retrieve.

category: This selects the "category" column from the table.

SUM(amount) AS total_spent: This calculates the sum of the "amount" column for each category and assigns it an alias `total_spent` for better readability.

FROM Expenses: This clause specifies the table from which you're retrieving data ("Expenses" in this case).

GROUP BY category: This clause groups the rows by the "category" value. The `SUM(amount)` function is then applied to each group, calculating the total spent for each category.

1.2. Average Expense per Category:

SQL

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

This query calculates the average expense amount for each category.

SELECT category, AVG(amount) AS average_expense: This selects the "category" and calculates an average.

AVG(amount) AS average_expense: This calculates the average of the "amount" column for each category and assigns it an alias `average_expense`.

FROM Expenses: specifies the table.

GROUP BY category: Groups the data by category before calculating the average expense within each category.