Assignment 3 answers

1.1. Total Spent per Category: SELECT category, SUM(amount) AS total_amount FROM expenses GROUP BY category; **Alternative:** SELECT e.category, (SELECT SUM(amount) FROM expenses WHERE category = e.category) AS total amount **FROM** (SELECT DISTINCT category FROM expenses) AS e; 1.2. Average Expense per Category SELECT category, AVG(amount) AS average expense FROM expenses GROUP BY category; **Alternative: SELECT** category, (SELECT AVG(amount) FROM expenses e2 WHERE e2.category = e.category) AS average_amount **FROM** expenses e **GROUP BY** category;

Modified queries showing only the top 4 categories where you spend the most.

1.1. Total Spent per Category:

SELECT category, SUM(amount) AS total_amount

FROM expenses

GROUP BY category

ORDER BY total_amount DESC

LIMIT 4;

1.2. Average Expense per Category

SELECT category, AVG(amount) AS average_amount

FROM expenses

GROUP BY category

ORDER BY average amount DESC

LIMIT 4;

To give average amount to 2 decimal places:

SELECT category, ROUND(AVG(amount), 2) AS average amount

FROM expenses

GROUP BY category

ORDER BY average amount DESC

LIMIT 4;