


Query 1: Finding the overall total sales



-- Find the total revenue using a CTE.

```
WITH revenue AS(  
    SELECT  
        orderID,  
        SUM(unitPrice * quantity) AS order_total -- Avoid rounding until the end for better accuracy.  
    FROM  
        order_details  
    GROUP BY orderID  
    ORDER BY orderID  
)  
SELECT  
    ROUND(SUM(order_total)) AS total_sales -- Round to nearest whole dollar.  
FROM  
    revenue; -- Total revenue was $1,354,459.
```

Query 2: Finding the total sales per quarter



```
-- a. Group the total sales by orderID and the order date.
WITH grouped_orders AS (
SELECT
    o.orderID,
    o.orderDate,
    SUM(od.unitPrice * od.quantity) AS order_total
FROM
    order_details od
JOIN orders o
ON o.orderID = od.orderID
GROUP BY o.orderID, orderDate
),

-- b. Use CTE to now extract the month portion from the order date
grouped_monthly_orders AS (
SELECT
    orderID,
    order_total,
    orderDate,
    MONTHNAME(orderDate) AS order_month
FROM
    grouped_orders
),
```

```
-- c. Create CASE statement to group the order month column into their respective quarter
quarterly_sales AS (
SELECT
    orderID,
    order_total,
    orderDate,
    order_month,
    CASE
        WHEN order_month IN('January', 'February', 'March') THEN 'Q1'
        WHEN order_month IN('April', 'May', 'June') THEN 'Q2'
        WHEN order_month IN('July', 'August', 'September') THEN 'Q3'
        WHEN order_month IN('October', 'November', 'December') THEN 'Q4'
    END AS sales_quarter
FROM
    grouped_monthly_orders
)

SELECT
    sales_quarter,
    ROUND(SUM(order_total)) sales_total
FROM
    quarterly_sales
GROUP BY sales_quarter
ORDER BY sales_total DESC;

-- Check to see that the total is $1,354,459
-- SELECT ROUND(SUM(order_total)) FROM quarterly_sales; -- Accuracy check good
```