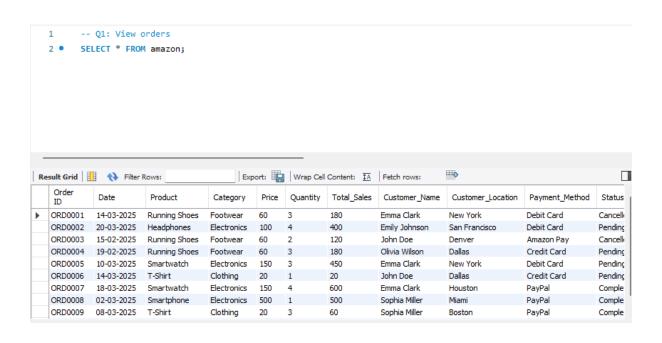
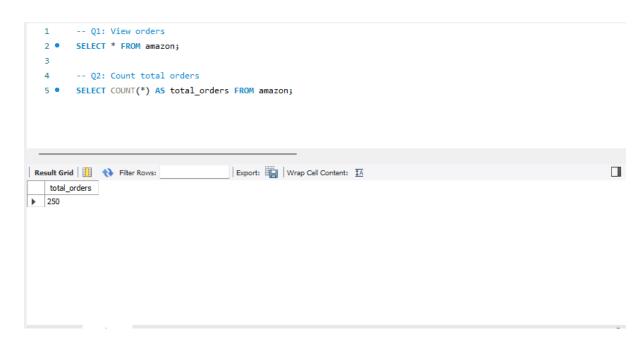
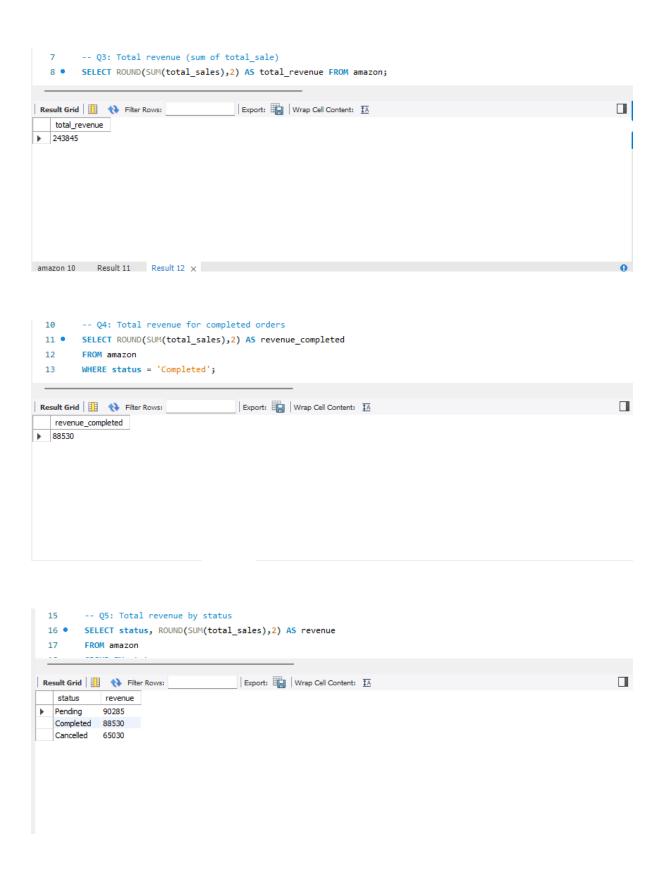
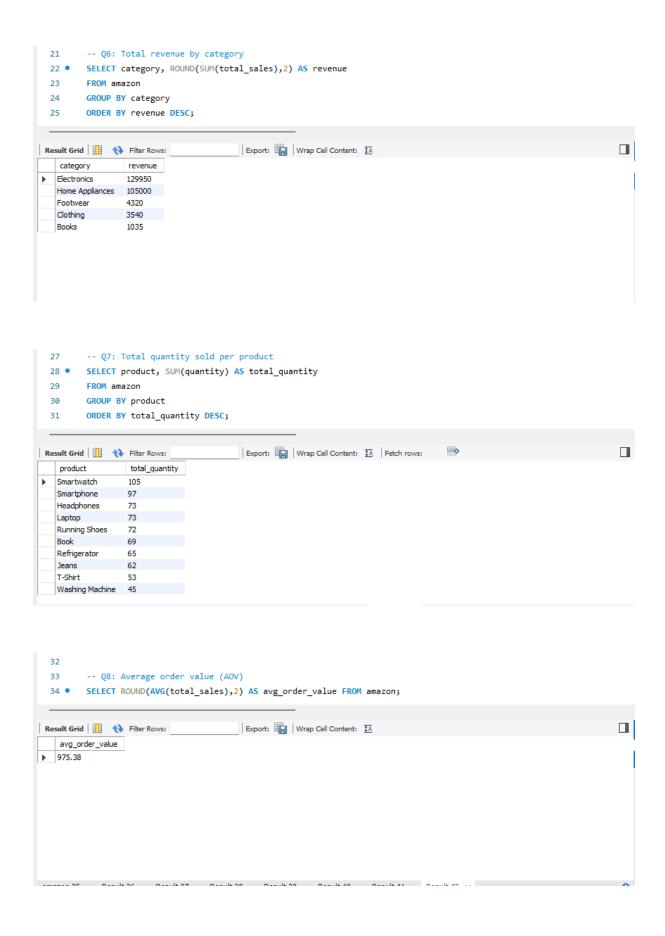
## **Task 4: SQL for Data Analysis**

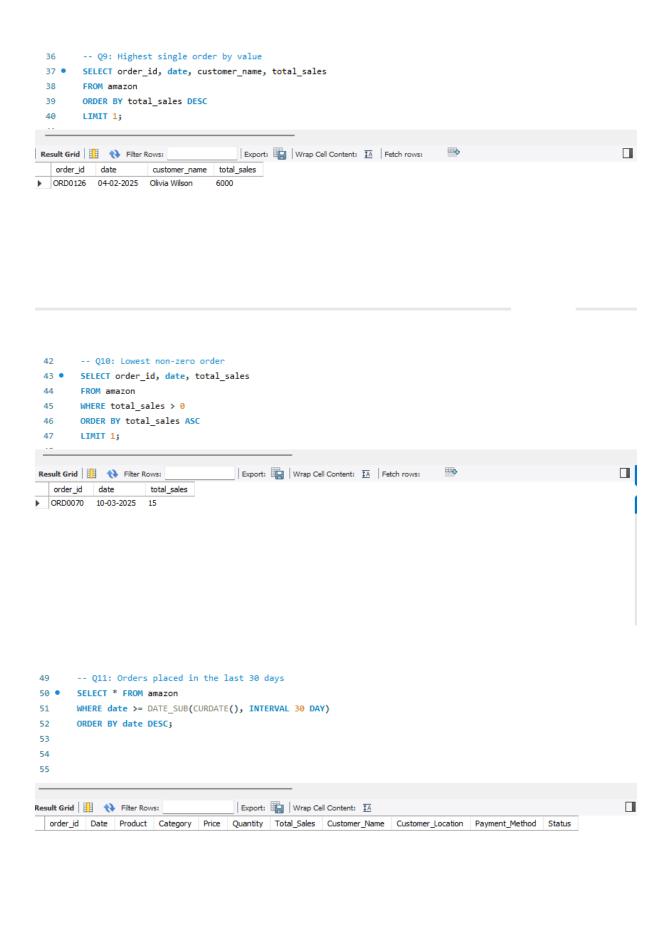
## Amazon sales data 2025

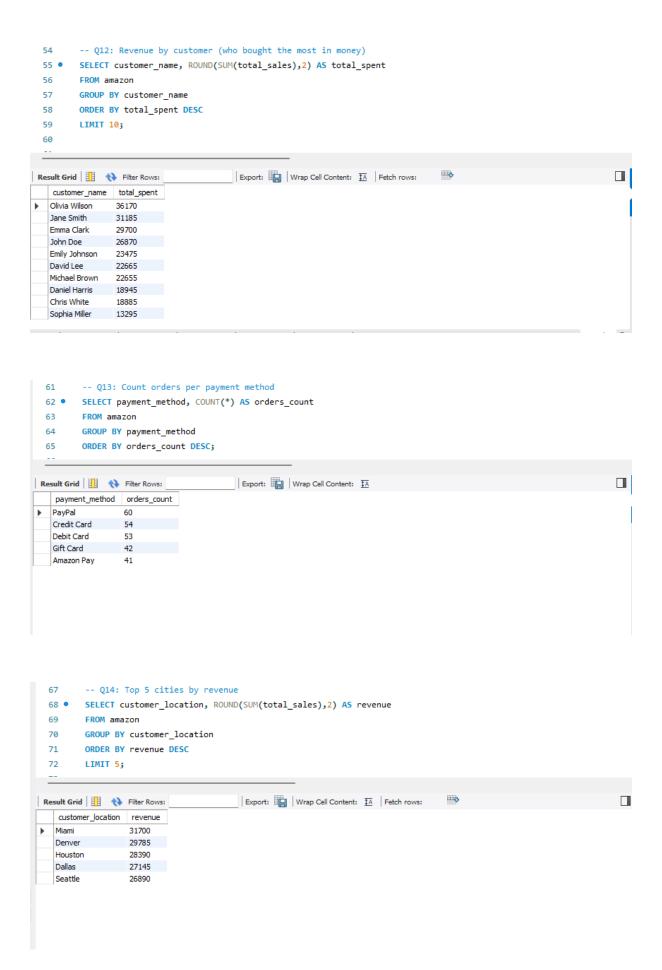










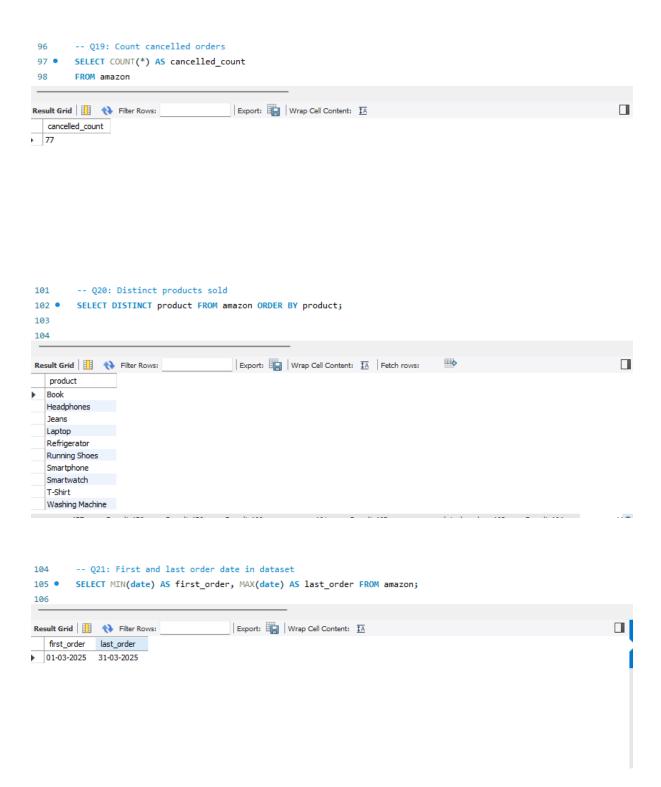


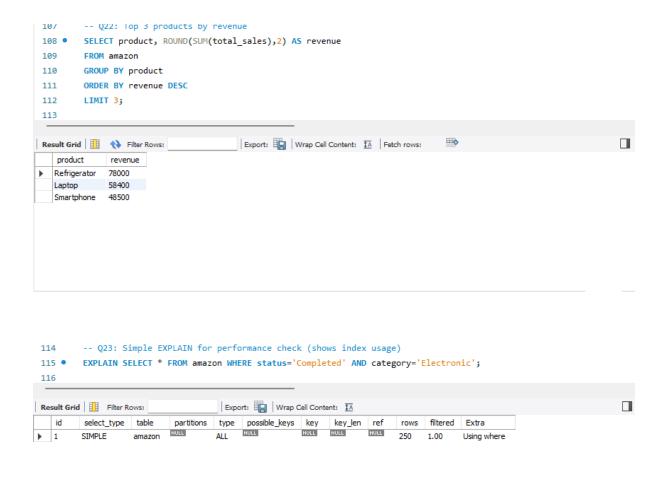
```
-- Q15: List of pending orders (for follow-up)
 75 • SELECT order_id, date, customer_name, product, total_sales
 76
        FROM amazon
        WHERE status = 'Pending'
 77
        ORDER BY date;
 78
Export: Wrap Cell Content: 🔼 Fetch rows:
                                                                                                                         order_id date
                     customer_name product
                                                total_sales
 ORD0013 01-03-2025 Daniel Harris
                                    Laptop
                                                 1600
  ORD0034 02-04-2025 Jane Smith
                                   T-Shirt
                                                 100
  ORD0091 03-02-2025 Daniel Harris
                                    Laptop
                                                 3200
  ORD0126 04-02-2025 Olivia Wilson Refrigerator
                                                6000
  ORD0196 04-03-2025 Daniel Harris
                                    Headphones
                                                 500
  ORD0155 05-02-2025 Sophia Miller Refrigerator
                                                 4800
  ORD0147
           05-02-2025
                      Jane Smith
                                    Running Shoes 300
  ORD0088 06-02-2025 Chris White
                                   Refrigerator 2400

        ORD0027
        07-02-2025
        Daniel Harris
        T-Shirt
        20

        ORD0134
        07-02-2025
        David Lee
        Smartphone
        2500

        -- Q16: Data validation - show rows where total_sale differs from price * quantity
 80
        SELECT order_id, price, quantity, total_sales, ROUND(price * quantity, 2) AS calc_total,
 81 •
               ROUND(ABS(total_sales - price * quantity),2) AS diff
 82
 83
        FROM amazon
        WHERE total_sales IS NULL OR ROUND(ABS(total_sales - price * quantity),2) > 0.01;
 84
 85
 86
Export: Wrap Cell Content: IA
                                                                                                                        order_id price quantity total_sales calc_total diff
        -- Q17: Create a simple view of completed order summary
 87 • DROP VIEW IF EXISTS vw_completed_orders;
 88 • CREATE VIEW vw_completed_orders AS
        SELECT order_id,date, product, category, quantity, total_sales, customer_name, customer_location, payment_metho
 89
 90
       FROM amazon
       WHERE status = 'Completed';
 91
 92
        -- Q18: Use the view
 94 • SELECT * FROM vw_completed_orders ORDER BY date DESC LIMIT 50;
                                                                                                                         Export: Wrap Cell Content: 🚻 | Fetch rows:
  order_id
           date
                      product
                                  category
                                                 quantity total_sales customer_name customer_location payment_method
 ORD0111 31-03-2025 Laptop
                                  Electronics
                                                         3200
                                                                   Emma Clark
                                                                                Los Angeles
                                                                                                Credit Card
  ORD0096 30-03-2025 Smartwatch Electronics 3
                                                       450
                                                                 Jane Smith
                                                                              New York
                                                                                                Amazon Pay
  ORD0063 30-03-2025
                      Smartphone
                                 Electronics
                                                         2500
                                                                   Emma Clark
                                                                                                Gift Card
                                            5 200 Daniel Harris Dallas
  ORD0209 29-03-2025 Jeans
                                 Clothina
                                                                                               PavPal
  ORD0171 28-02-2025 Smartwatch Electronics
                                                        300
                                                                   Daniel Harris
                                                                                Houston
                                                                                                PavPal
                                                     1200 Olivia Wilson
  ORD0173 28-02-2025 Refrigerator Home Appliances 1
                                                                               Seattle
                                                                                               PayPal
  ORD0152 28-02-2025 Smartwatch
                                  Electronics
                                                         150
                                                                  John Doe
                                                                                Seattle
                                                                                                Gift Card
  ORD0176 27-03-2025 Book Books
                                                        15
                                                                 Michael Brown Boston
                                                                                               Amazon Pay
                                                                   Daniel Harris
                                                                                                Credit Card
  ORD0117 27-02-2025 T-Shirt
                                  Clothing
                                                1
                                                        20
                                                                                New York
                                                    200
  ORD0205 27-02-2025 Headphones Electronics
                                                                                Houston
                                                                  David Lee
                                                                                                PayPal
                                                    Result 335 Result 336
             amazon 332 amazon 333 Result 334
amazon 331
                                                                             amazon 337
                                                                                          Result 338 vw_completed_orders 3. (1)
```





Result 530 amazon 540 Result 541 vw. completed orders 542 Result 543 amazon 544 Result 545 Result 546 Result 540