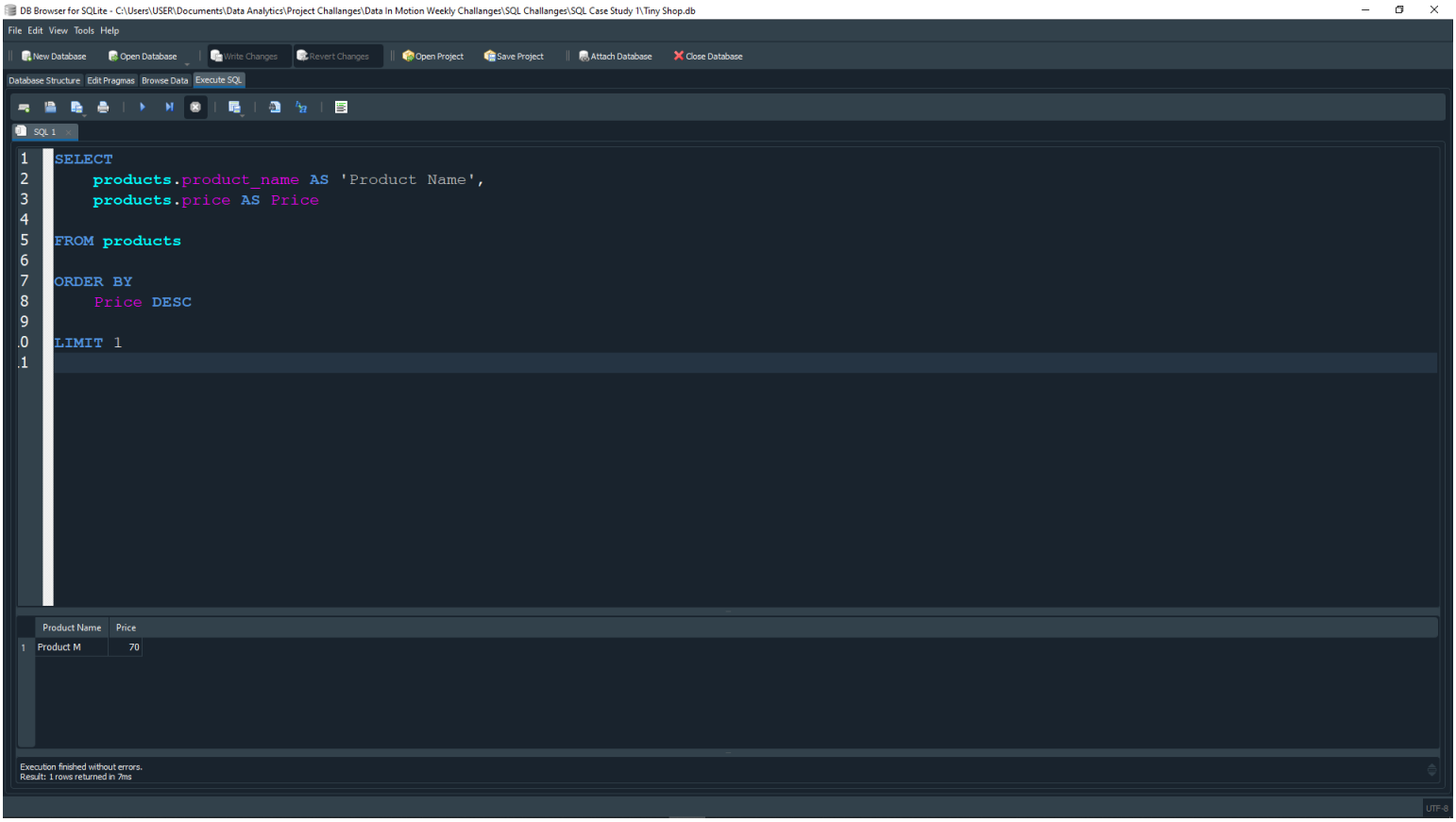
SQL CASE STUDY 1:

TINY SHOP

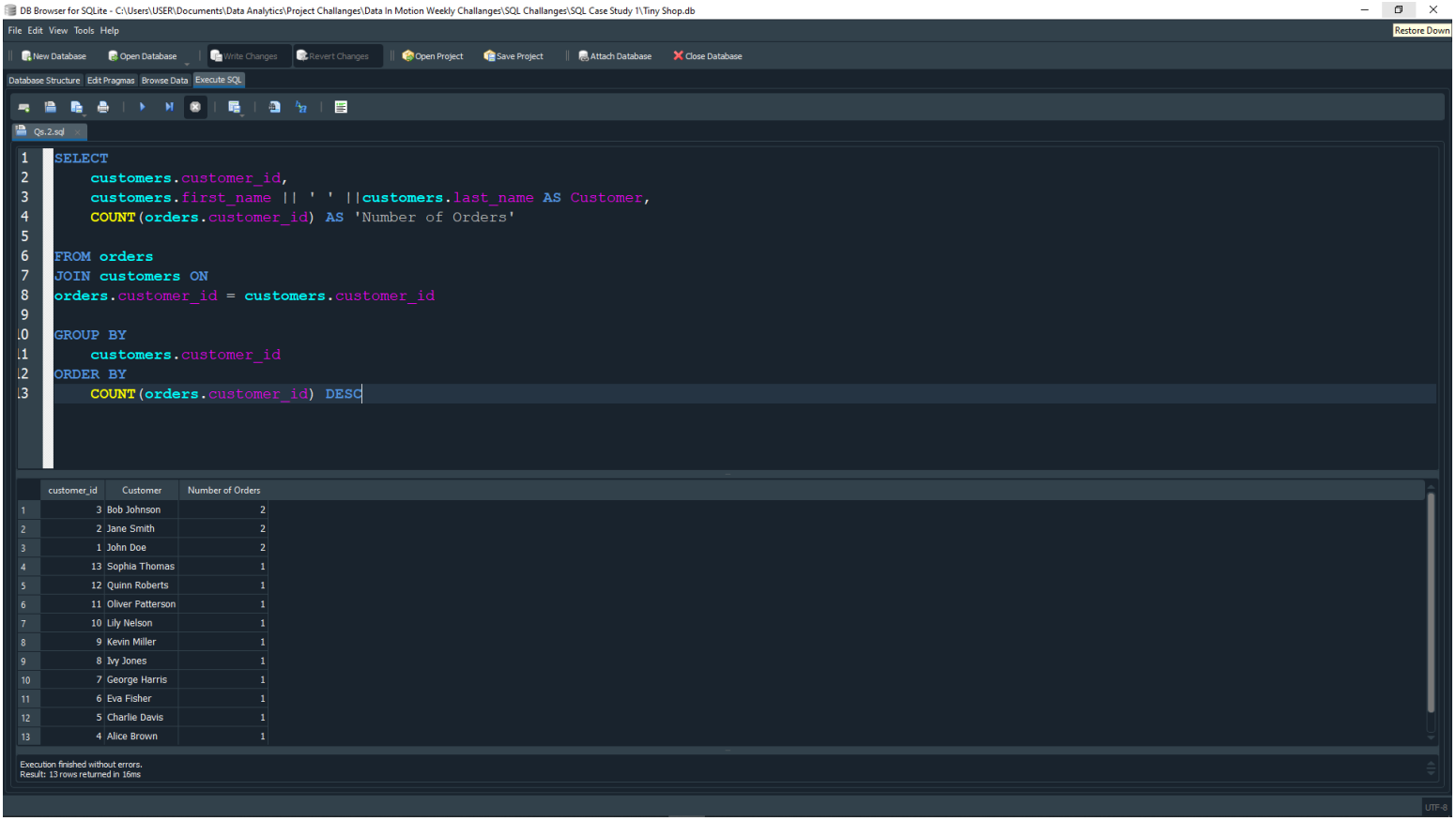
Jermaine Sangiwa

QUESTION 1: WHICH PRODUCT HAS THE HIGHEST PRICE? ONLY RETURN A SINGLE ROW.



The product with the highest price is **Product M**, with the price of $70.

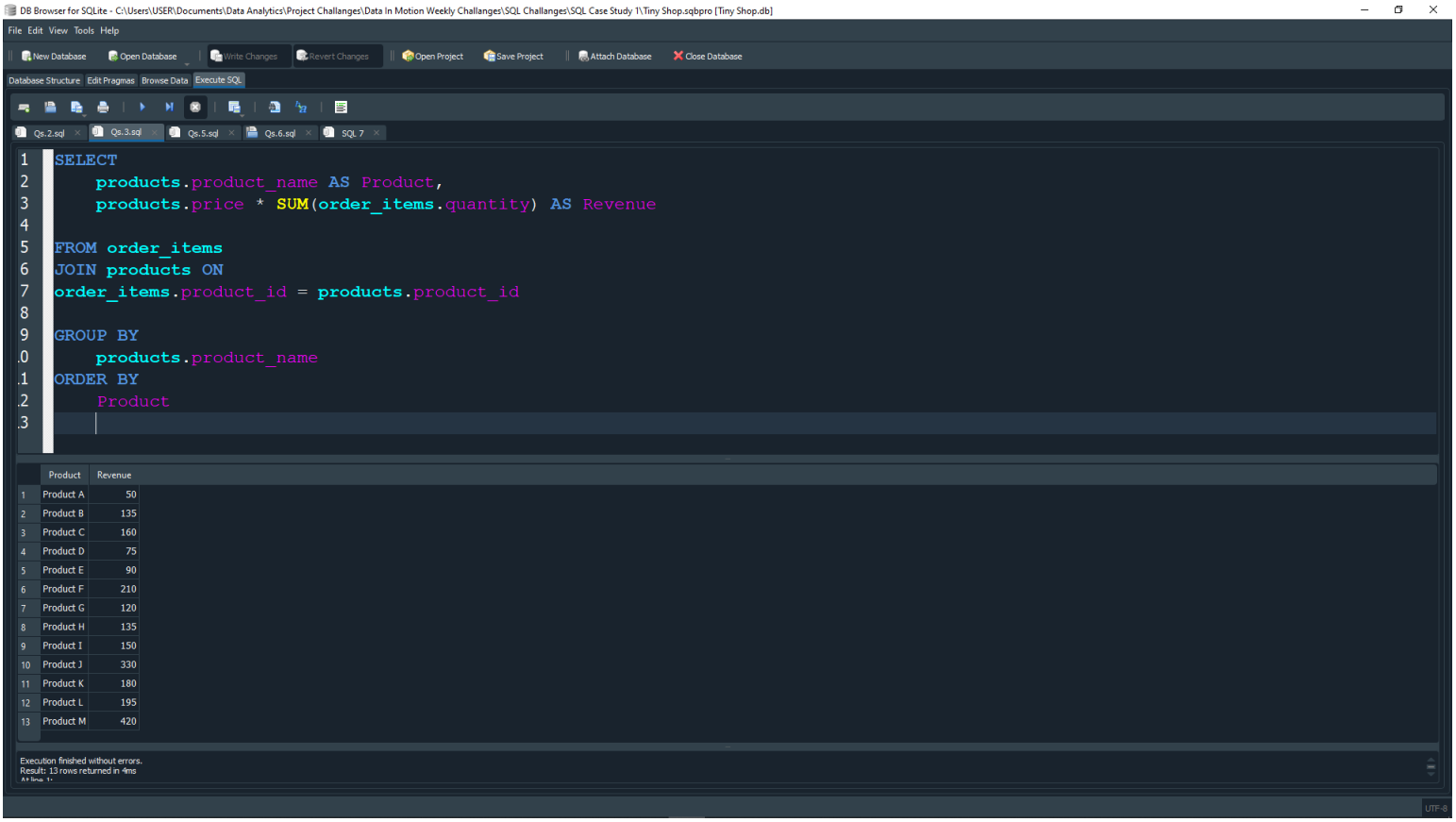
QUESTION 2: WHICH CUSTOMER HAS MADE THE MOST ORDERS?



Customers with the greatest number of orders are:

1. **Bob Johnson**: 2
2. **Jane Smith**: 2
3. **John Doe**: 2

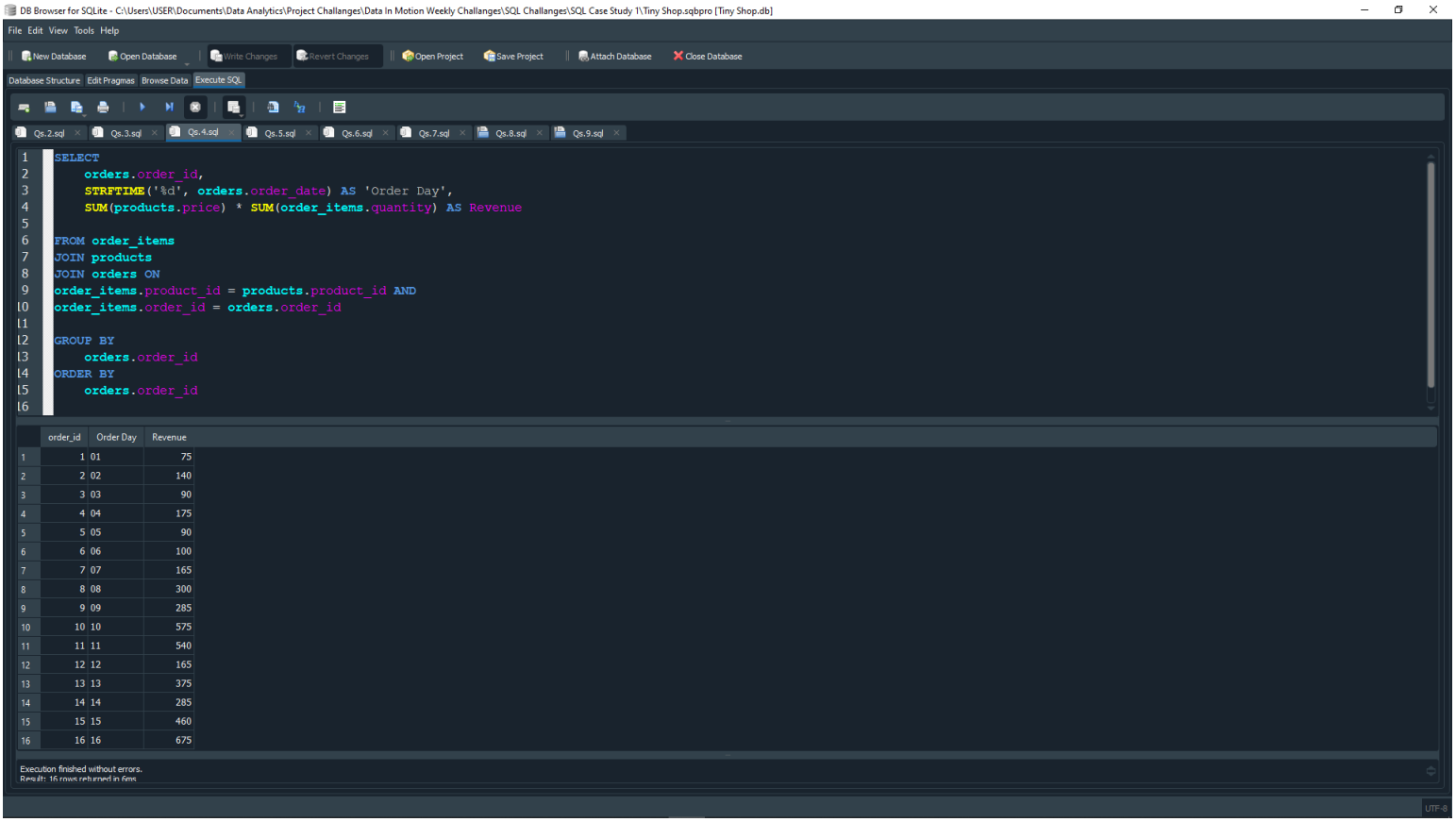
QUESTION 3: WHAT'S THE TOTAL REVENUE PER PRODUCT?



The total revenue for each product is:

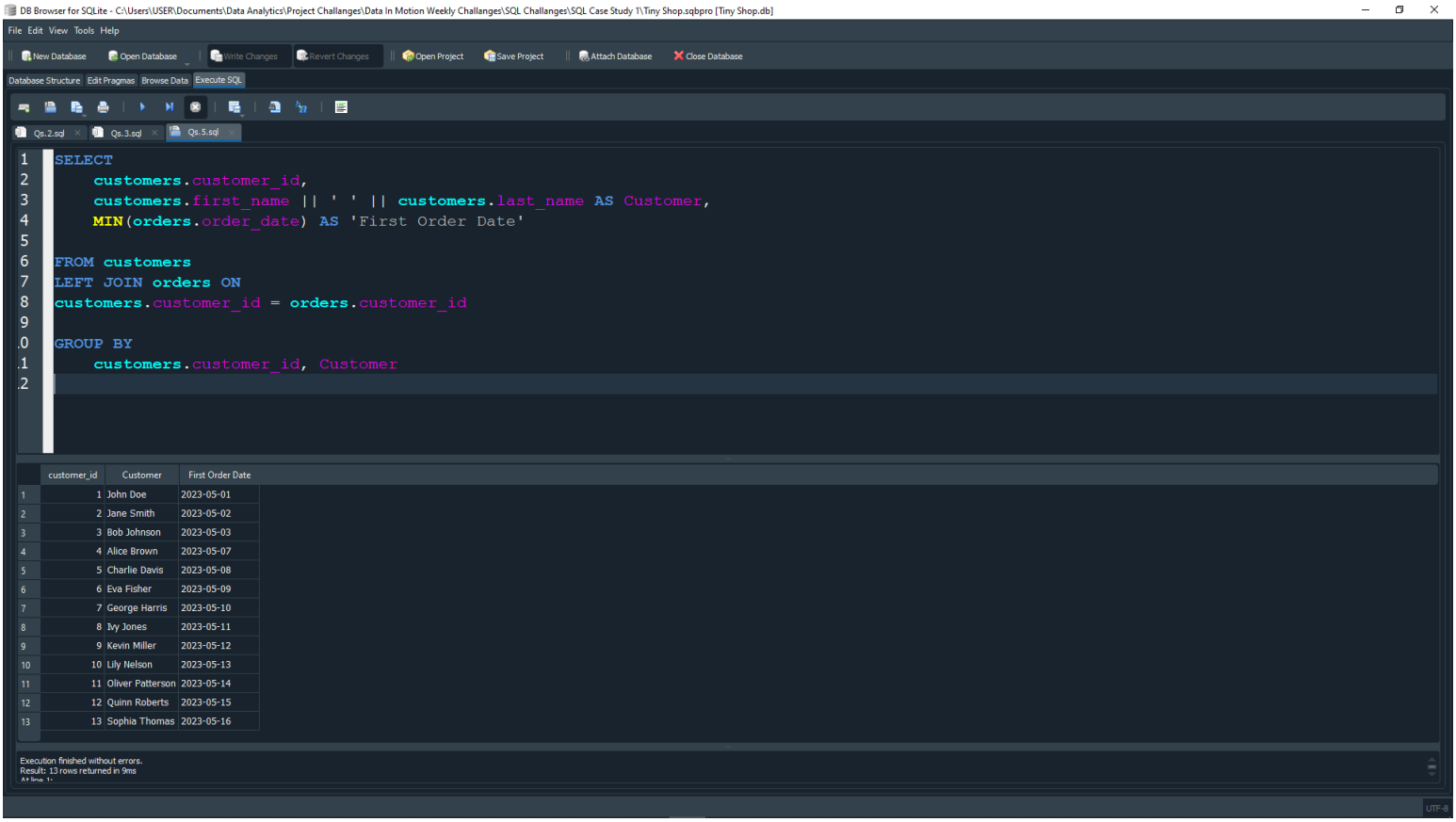
1. **Product A**: $50
2. **Product B**: $135
3. **Product C**: $160
4. **Product D**: $75
5. **Product E**: $90
6. **Product F**: $210
7. **Product G**: $120
8. **Product H**: $135
9. **Product I**: $150
10. **Product J**: $330
11. **Product K**: $180
12. **Product L**: $195
13. **Product M**: $420

QUESTION 4: FIND THE DAY WITH THE HIGHEST REVENUE?



The day with the highest revenue is **Day 16**.

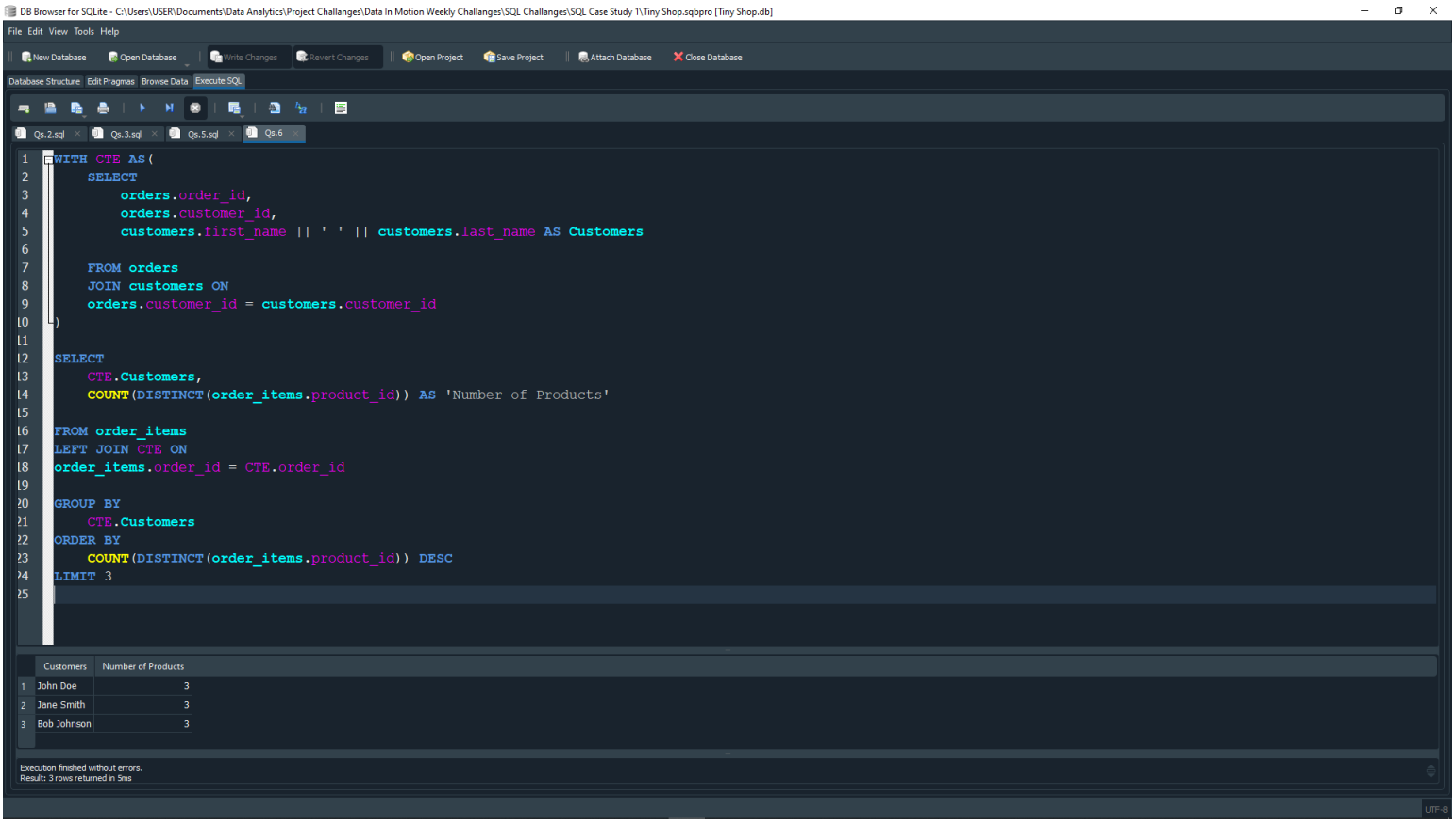
QUESTION 5: FIND THE FIRST ORDER (BY DATE) FOR EACH CUSTOMER.



The first order date for each customer is:

1. **John Doe**: 2023-05-01
2. **Jane Smith**: 2023-05-02
3. **Bob Johnson**: 2023-05-03
4. **Alice Brown**: 2023-05-07
5. **Charlie Davis**: 2023-05-08
6. **Eva Fisher**: 2023-05-08
7. **George Harris**: 2023-05-10
8. **Ivy Jones**: 2023-05-11
9. **Kevin Miller**: 2023-05-12
10. **Lily Nelson**: 2023-05-13
11. **Oliver Patterson**: 2023-05-14
12. **Quinn Roberts**: 2023-05-15
13. **Sophia Thomas**: 2023-05-16

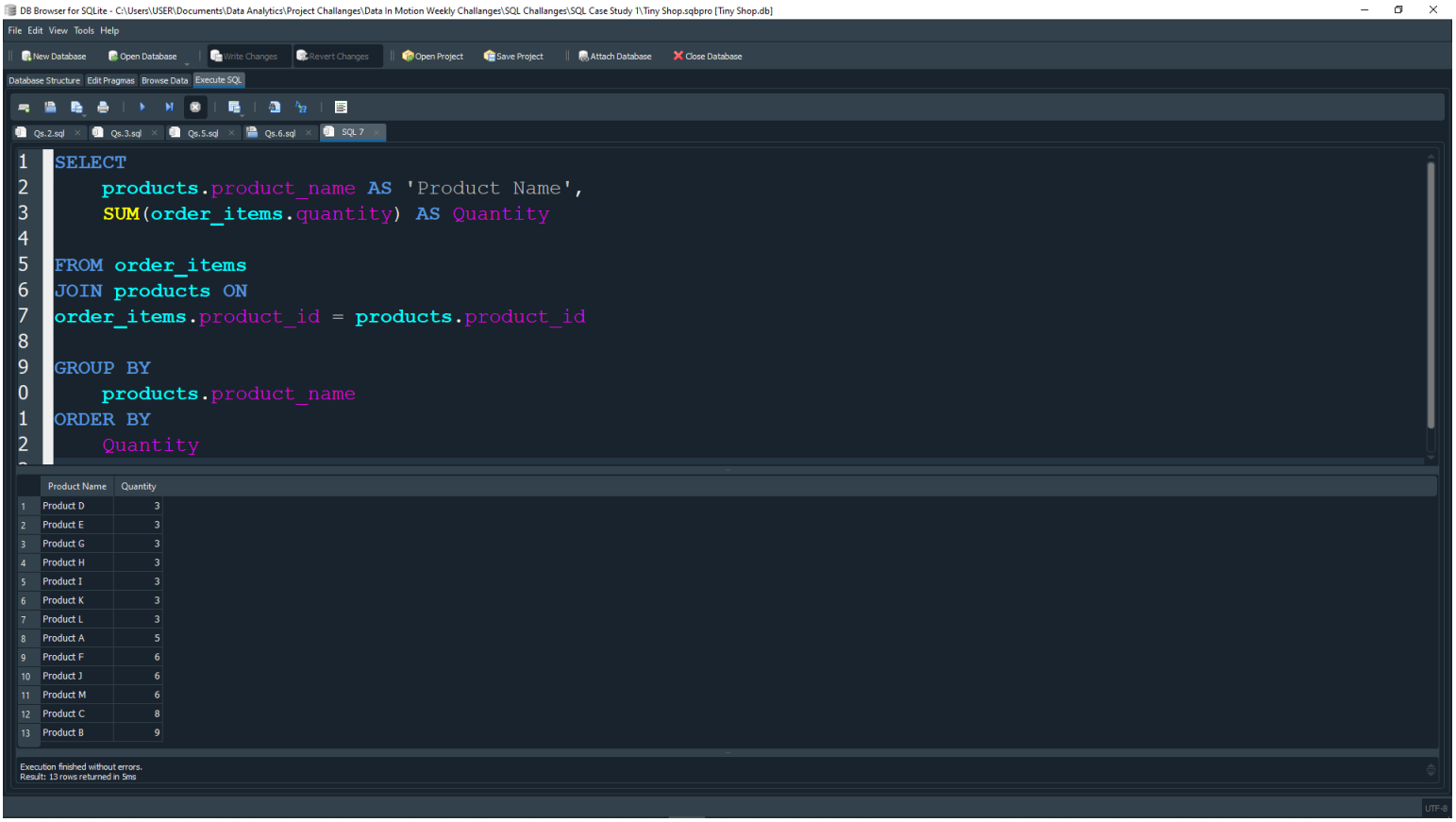
QUESTION 6: FIND THE TOP 3 CUSTOMERS WHO HAVE ORDERS THE MOST DISTINCT PRODUCTS?



The top 3 customers who have ordered the most distinct products are:

1. **John Doe**: 3
2. **Jane Smith**: 3
3. **Bob Johnson**: 3

QUESTION 7: WHICH PRODUCT HAS BEEN BOUGHT THE LEAST IN TERMS OF QUANTITY?

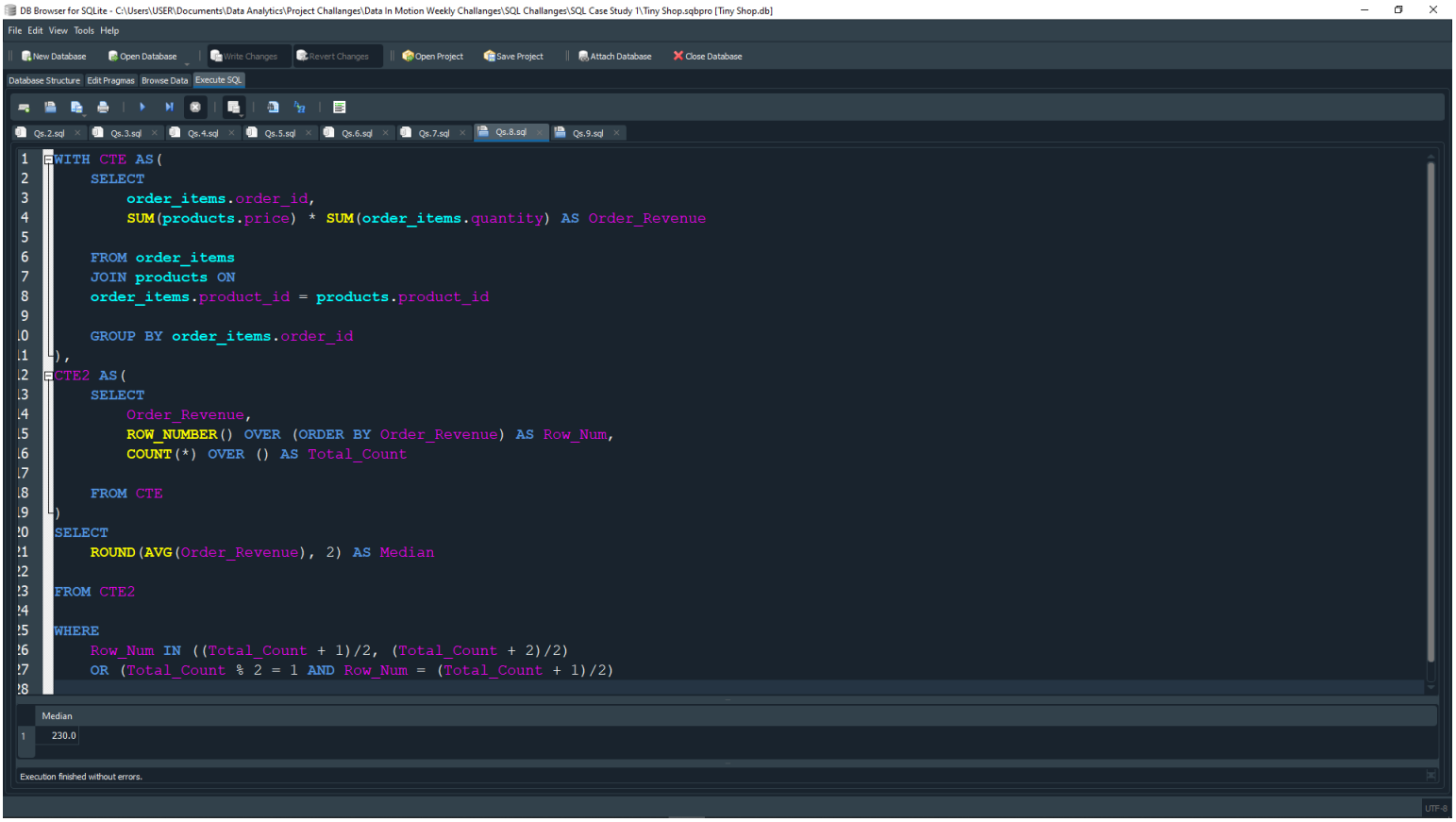


The products that have been bought the least in terms of quantity are:

1. **Product D**
2. **Product E**
3. **Product G**
4. **Product H**
5. **Product I**
6. **Product K**
7. **Product L**

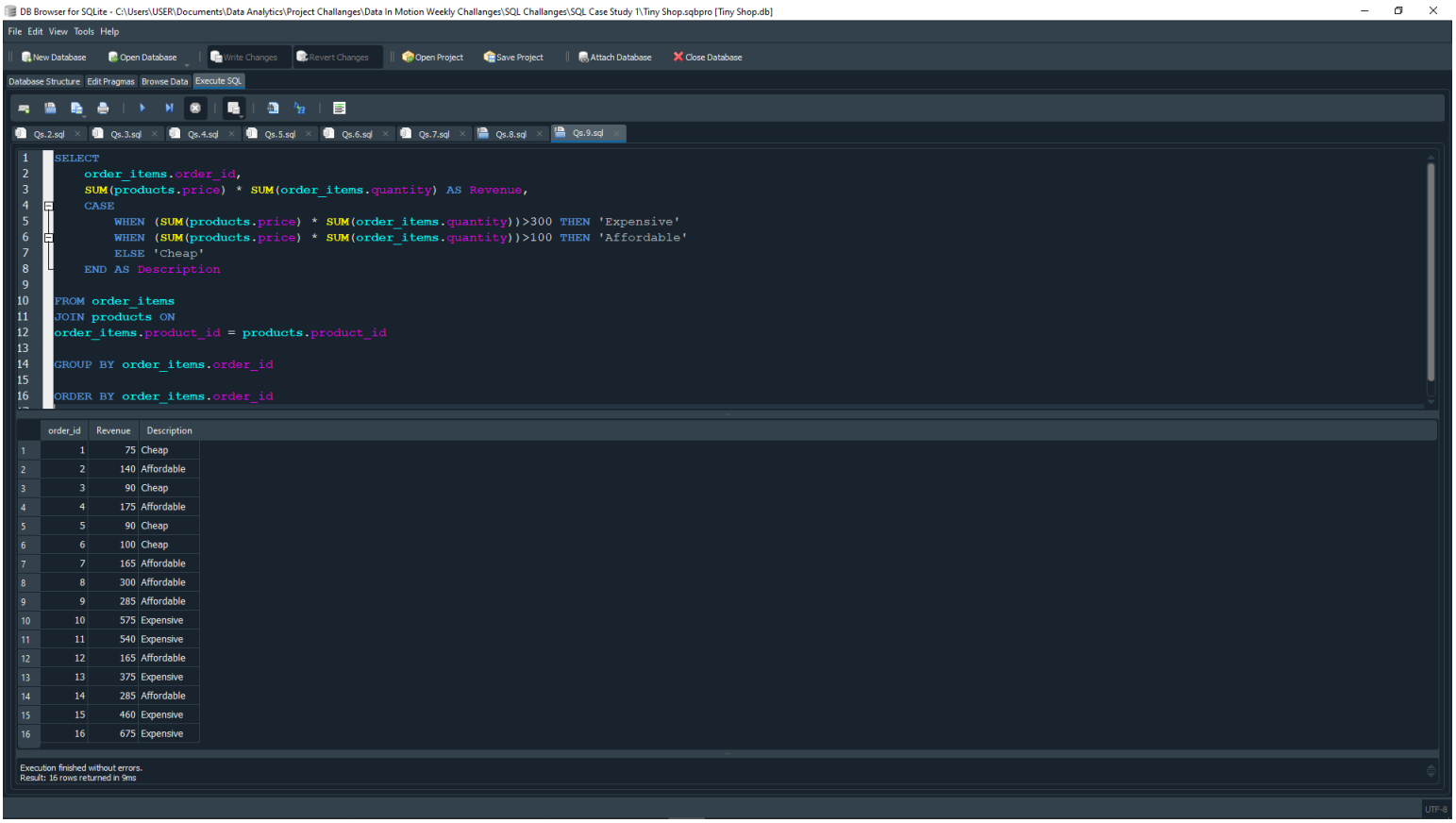
All seven of them have a total quantity of **3**

QUESTION 8: WHAT IS THE MEDIAN ORDER TOTAL?



The median order total is **230.0**.

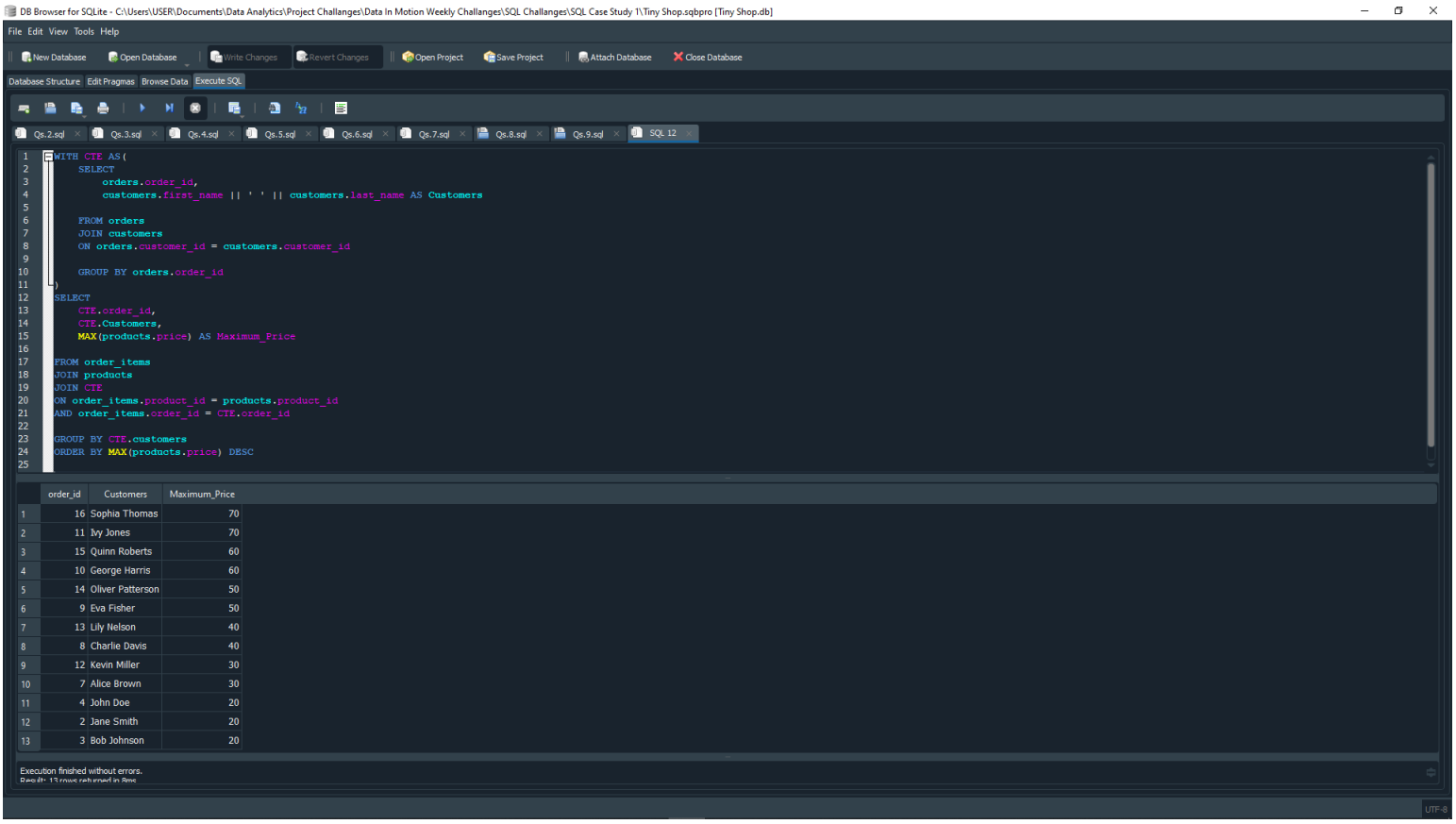
QUESTION 9: FOR EACH ORDER, DETERMINE IF IT WAS ‘EXPENSIVE’ (‘TOTAL OVER 300’), ‘AFFORDABLE’ (‘TOTAL OVER 100’), OR ‘CHEAP’.



The results of determining if each order where either ‘expensive’, ‘affordable’ or ‘’cheap are:

1. **Order_id 1**: Cheap
2. **Order_id 2**: Affordable
3. **Order_id 3**: Cheap
4. **Order_id 4**: Affordable
5. **Order_id 5**: Cheap
6. **Order_id 6**: Cheap
7. **Order_id 7**: Affordable
8. **Order_id 8**: Affordable
9. **Order_id 9**: Affordable
10. **Order_id 10**: Expensive
11. **Order_id 11**: Expensive
12. **Order_id 12**: Affordable
13. **Order_id 13**: Expensive
14. **Order_id 14**: Affordable
15. **Order_id 15**: Expensive
16. **Order_id 16**: Expensive

QUESTION 10: FIND THE CUSTOMERS WHO HAVE ORDER THE PRODUCT WITH THE HIGHEST PRICE.



The customers who have orderd the product with the highest price are:

1. **Sophia Thomas**: $70
2. **Ivy Jones**: $70