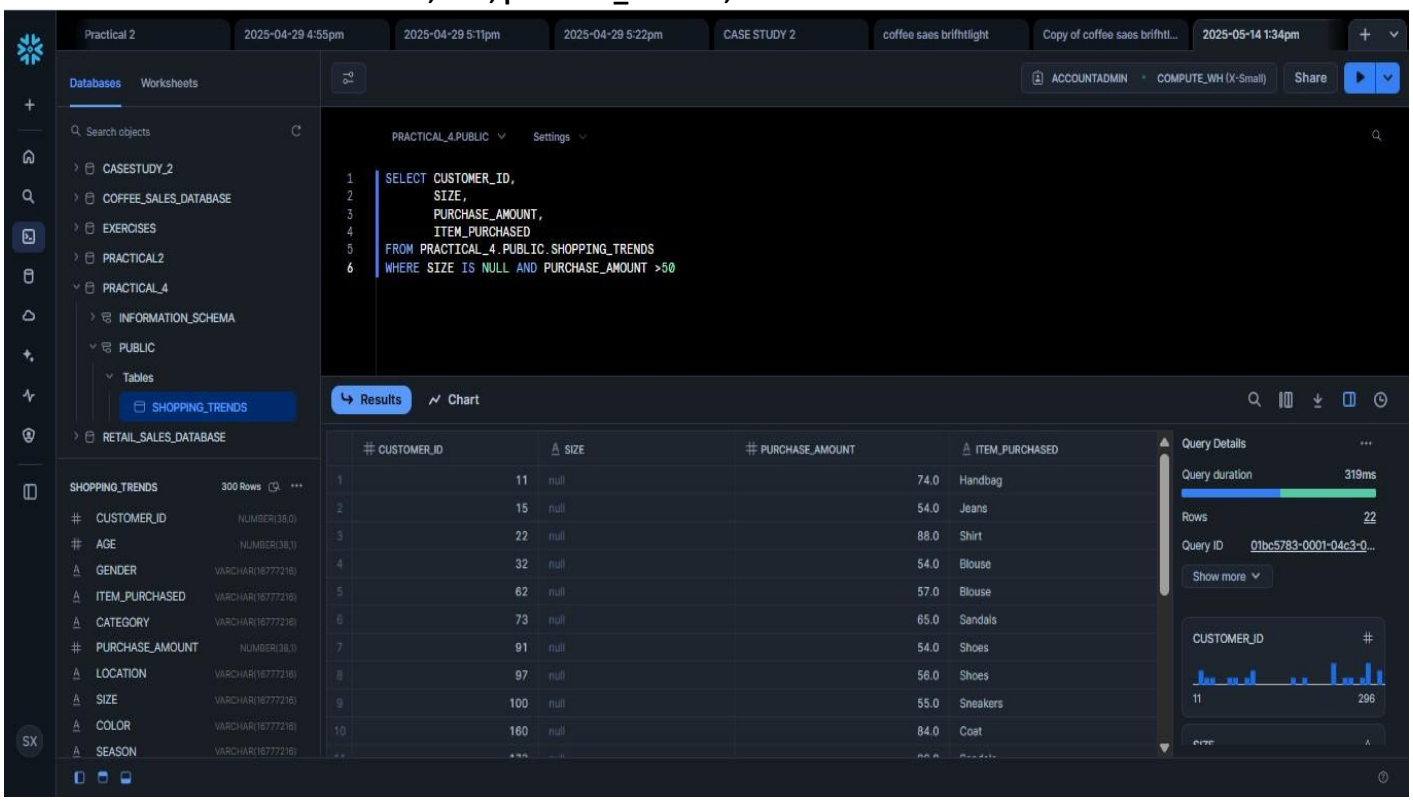
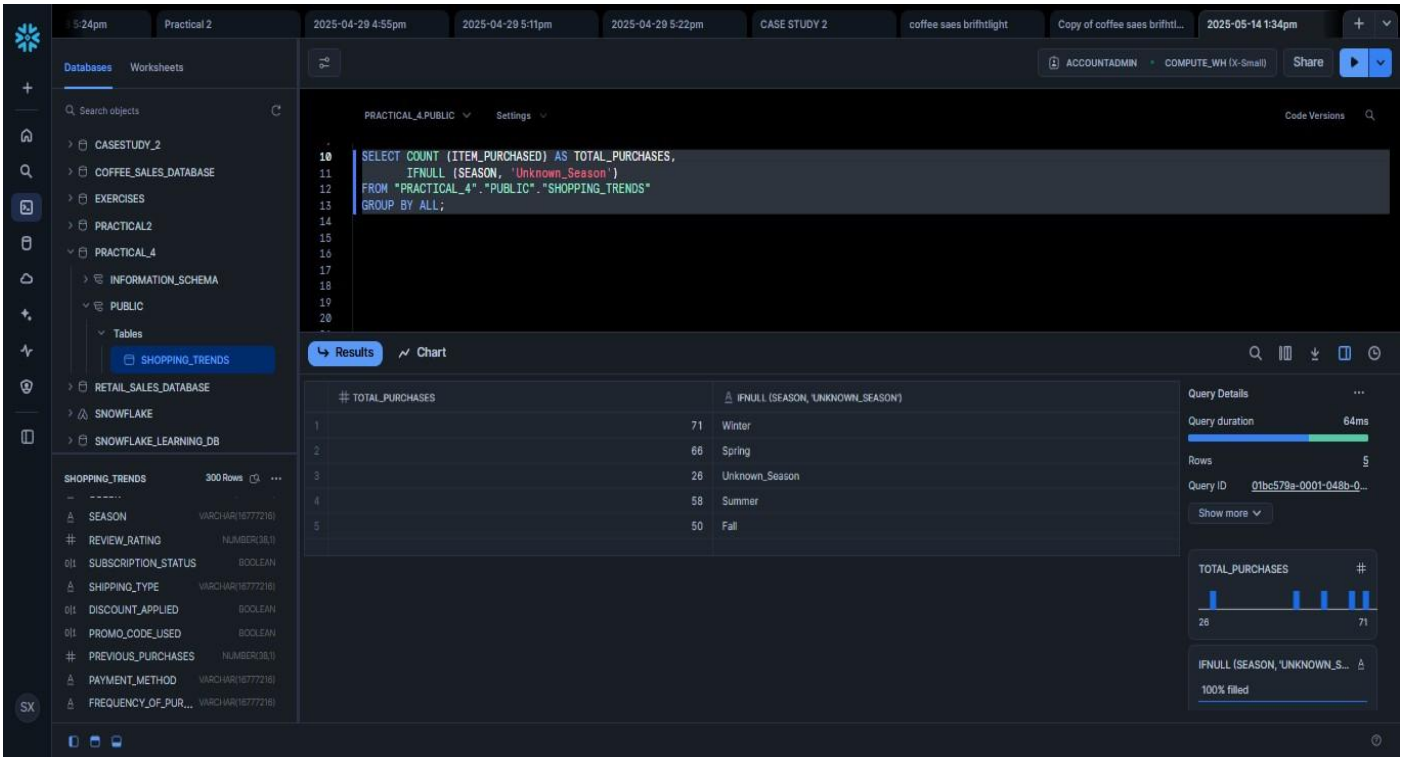
NULL FUNCTIONS

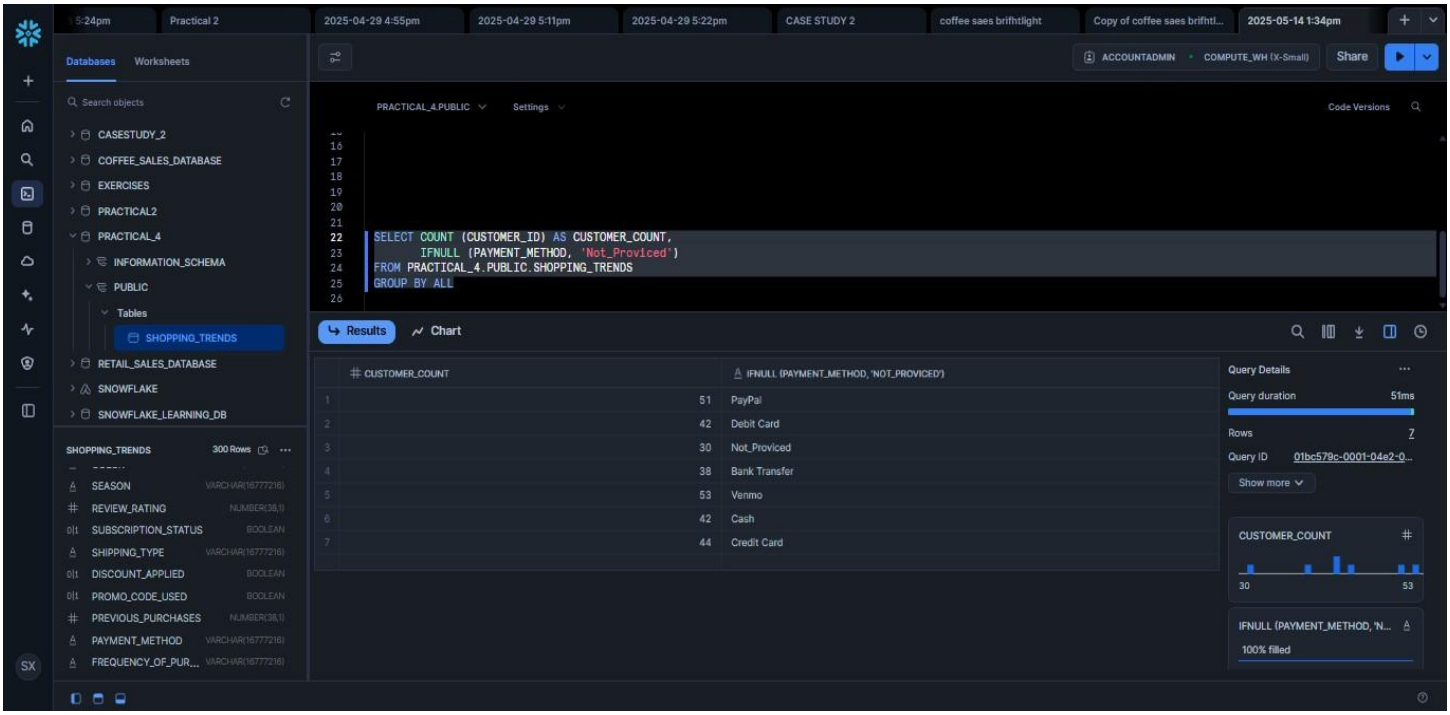
1. **Find all records where Size is missing and the purchase_amount is greater than 50. Expected Columns: Customer ID, Size, purchase_amount, Item Purchased**



2. **List the total number of purchases grouped by Season, treating NULL values a s 'Unknown Season'. Expected Columns: Season, Total Purchases**

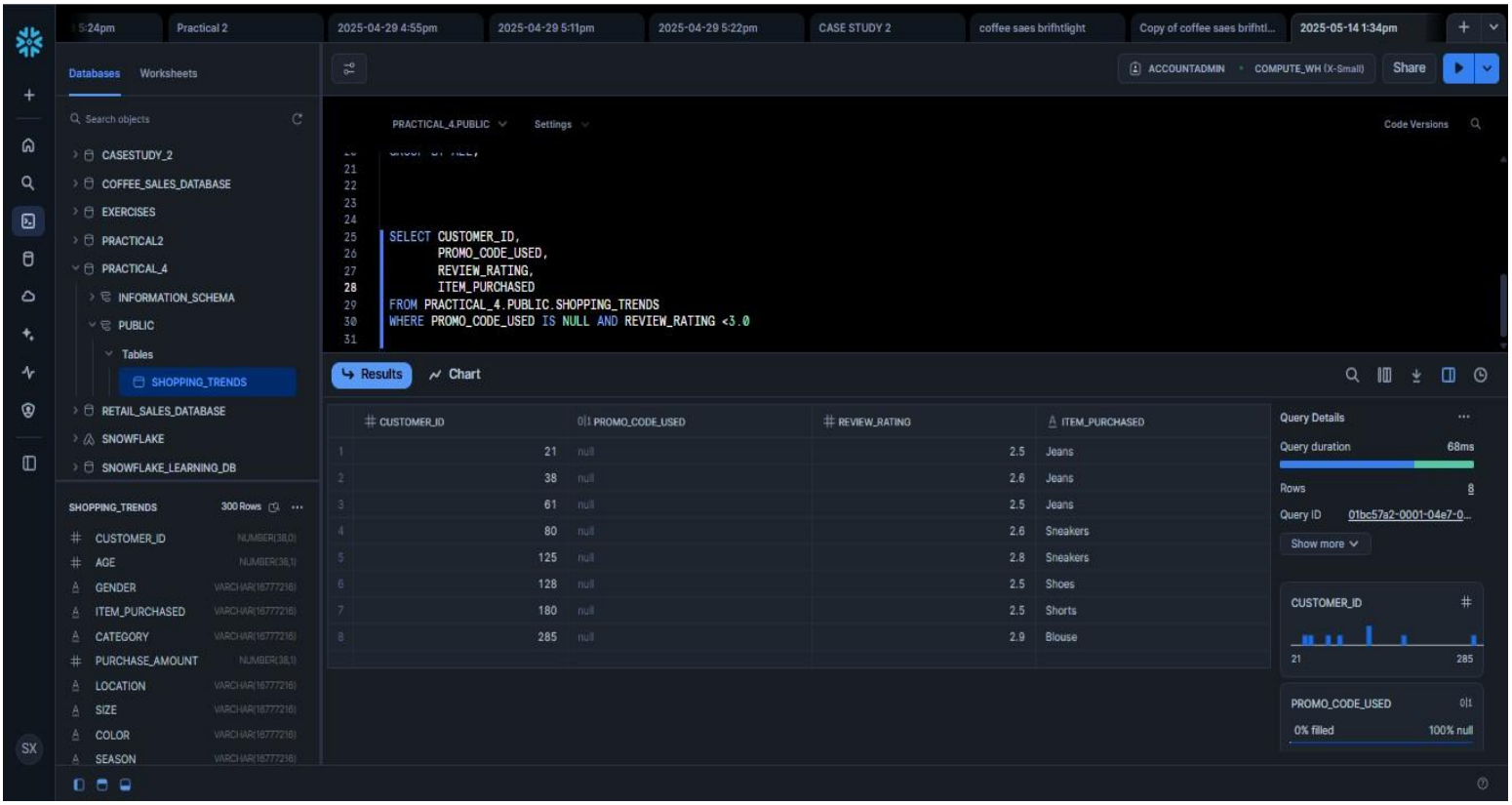


3. **Count how many customers used each Payment Method, treating NULLs as 'Not Provided'. Expected Columns: Payment Method, Customer Count**

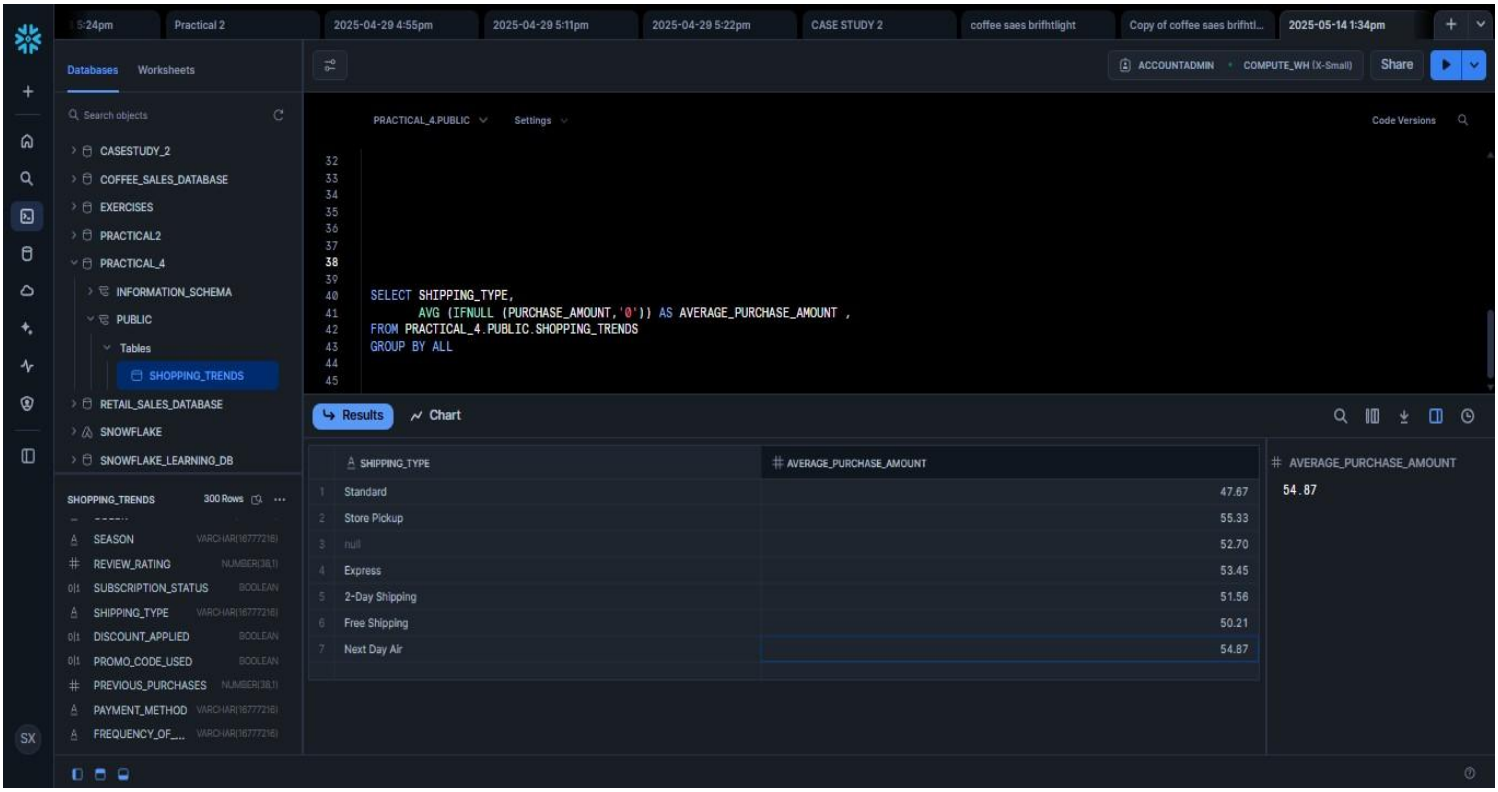


4. **Show customers where Promo Code Used is NULL and Review Rating is below 3.0.**

Expected Columns: Customer ID, Promo Code Used, Review Rating, Item Purchased



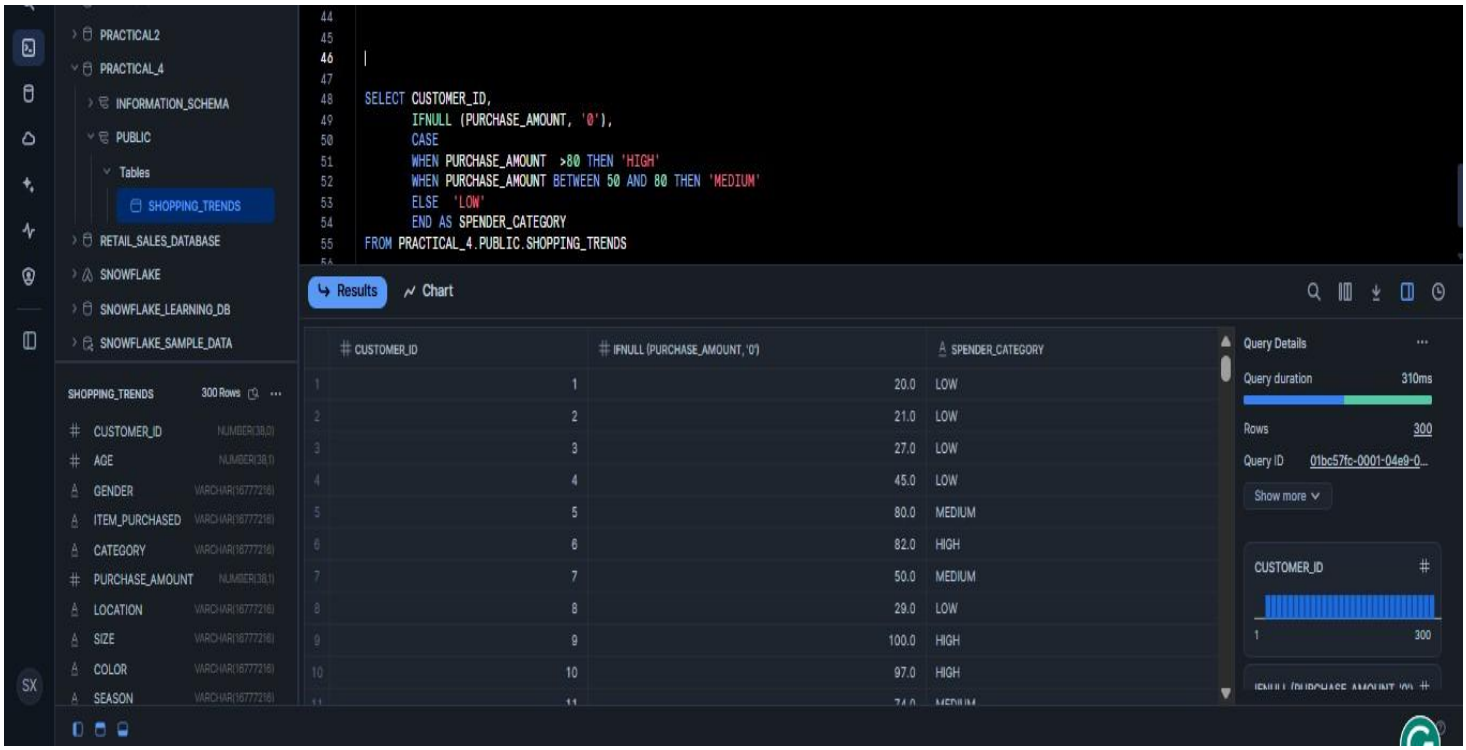
5. **Group customers by Shipping Type, and return the average purchase_amount, treating missing values as 0. Expected Columns: Shipping Type, Average purchase_amount**



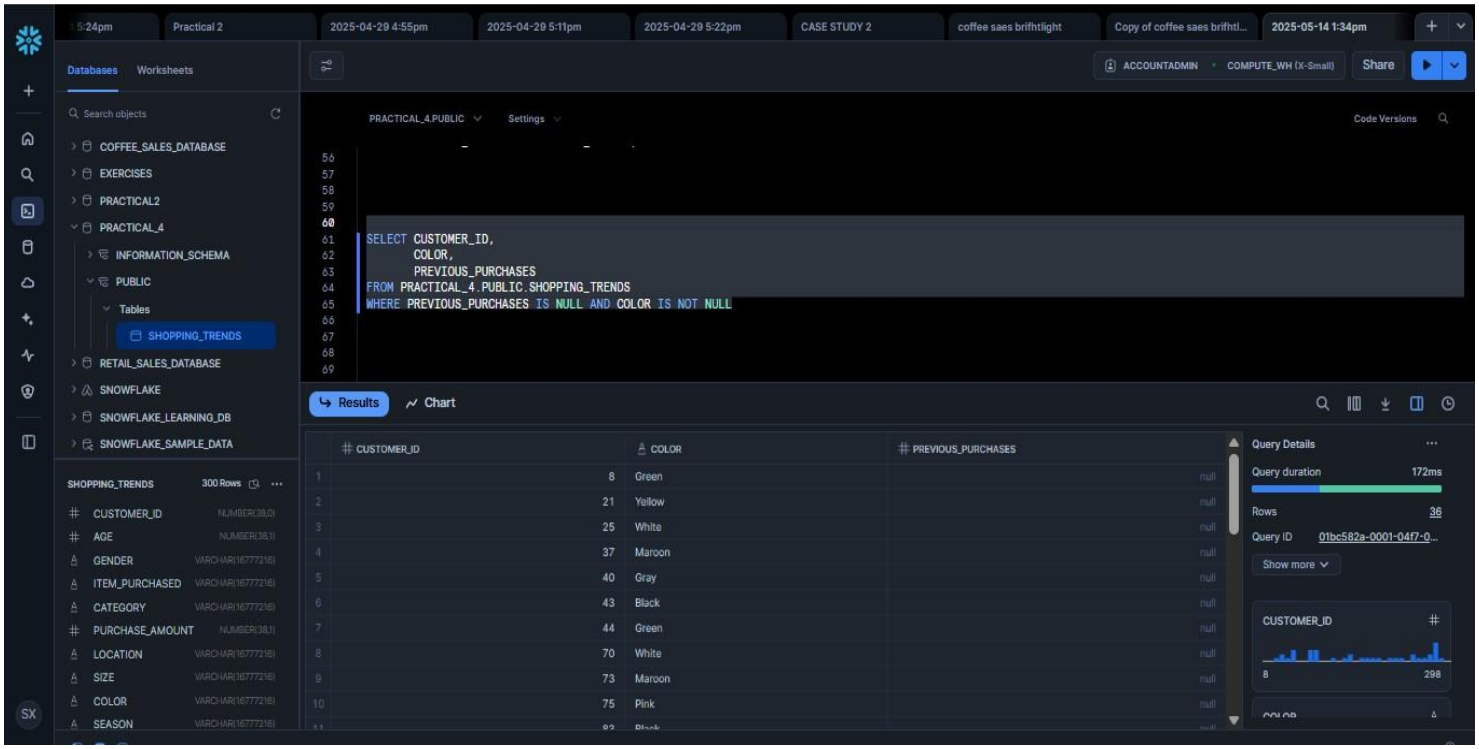
6. **Display the number of purchases per Location only for those with more than 5 purchases and no NULL Payment Method. Expected Columns: Location, Total Purchases**

7. **Create a column Spender Category that classifies customers using CASE: 'High' if amount > 80, 'Medium' if BETWEEN 50 AND 80, 'Low' otherwise. Replace NULLs in purchase_amount with 0.**

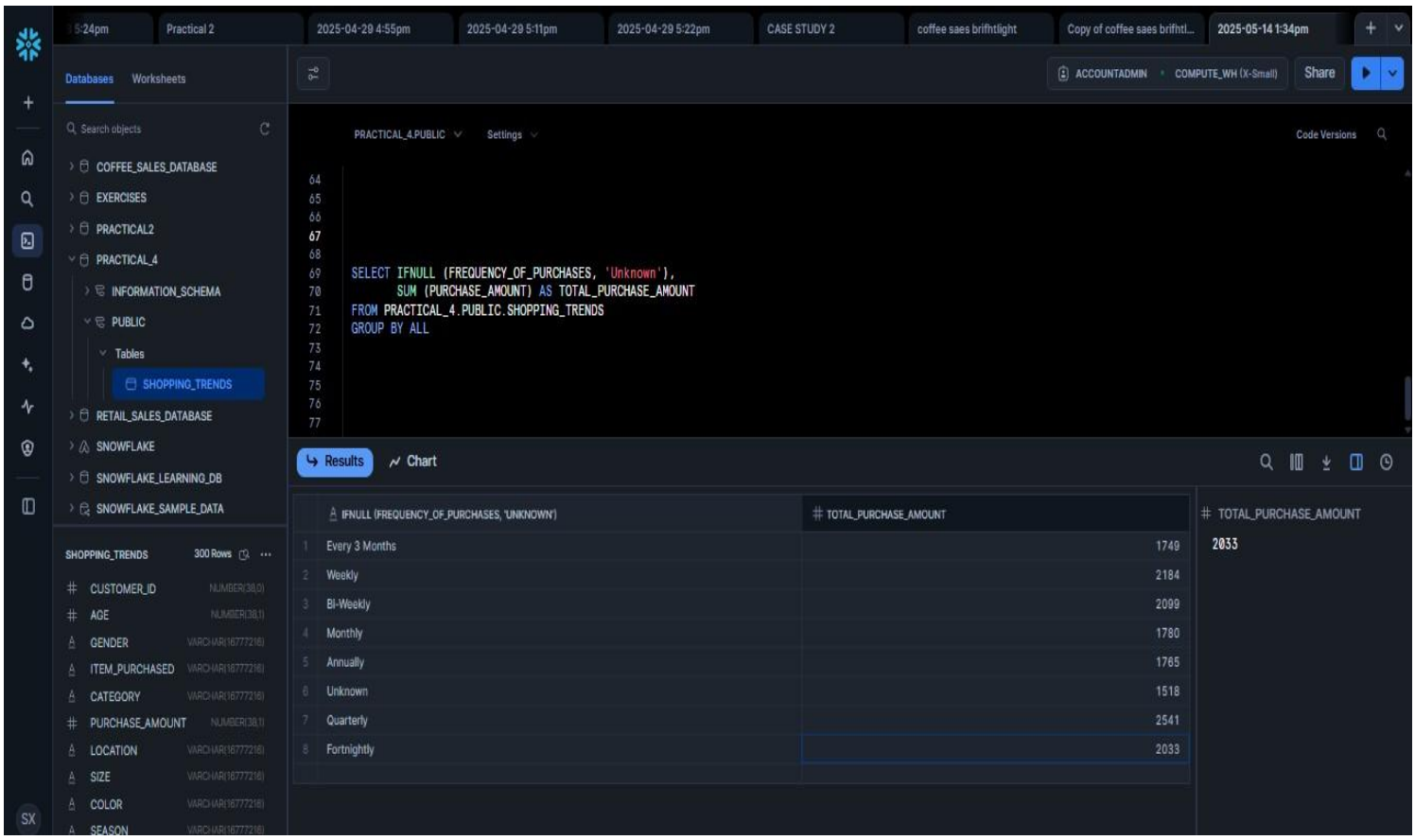
Expected Columns: Customer ID, purchase_amount, Spender Category



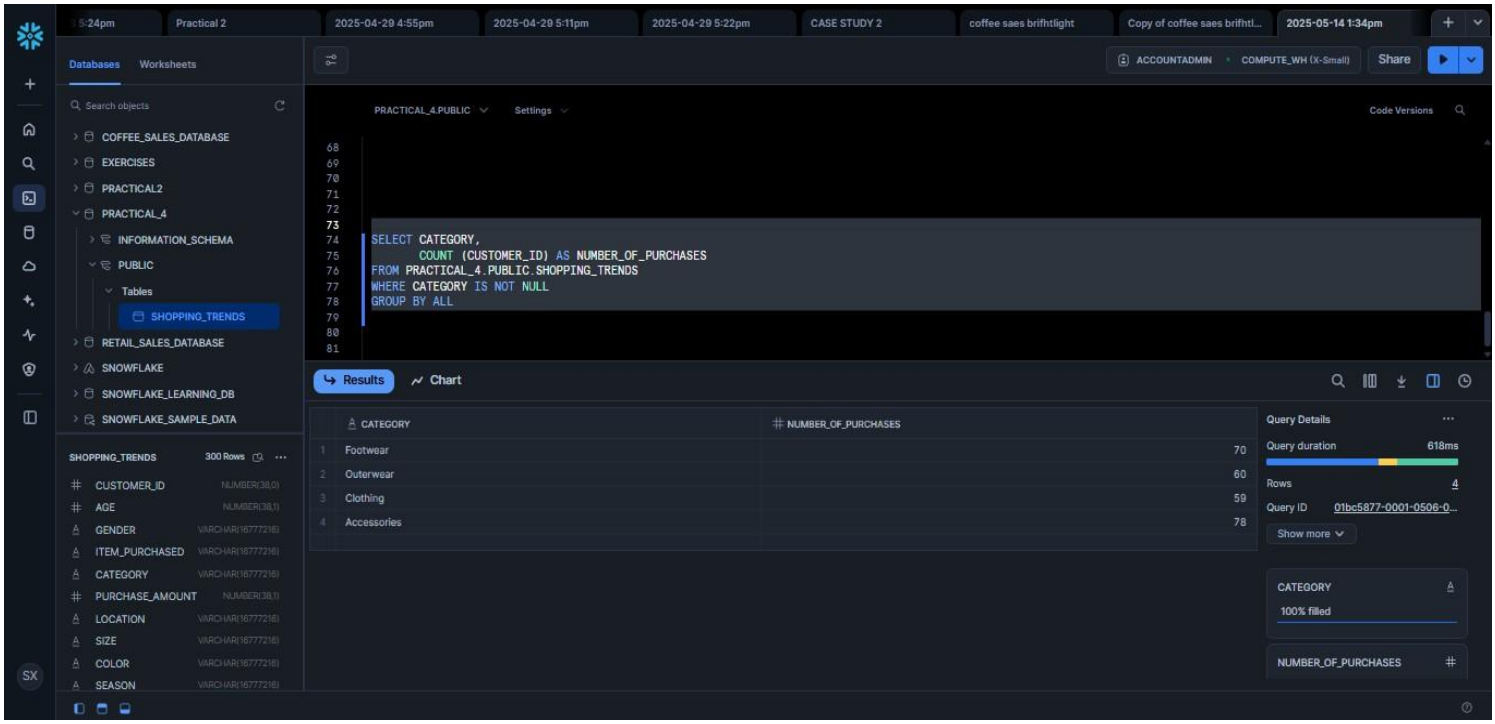
8. **Find customers who have no Previous Purchases value but whose Color is not NULL. Expected Columns: Customer ID, Color, Previous Purchases**



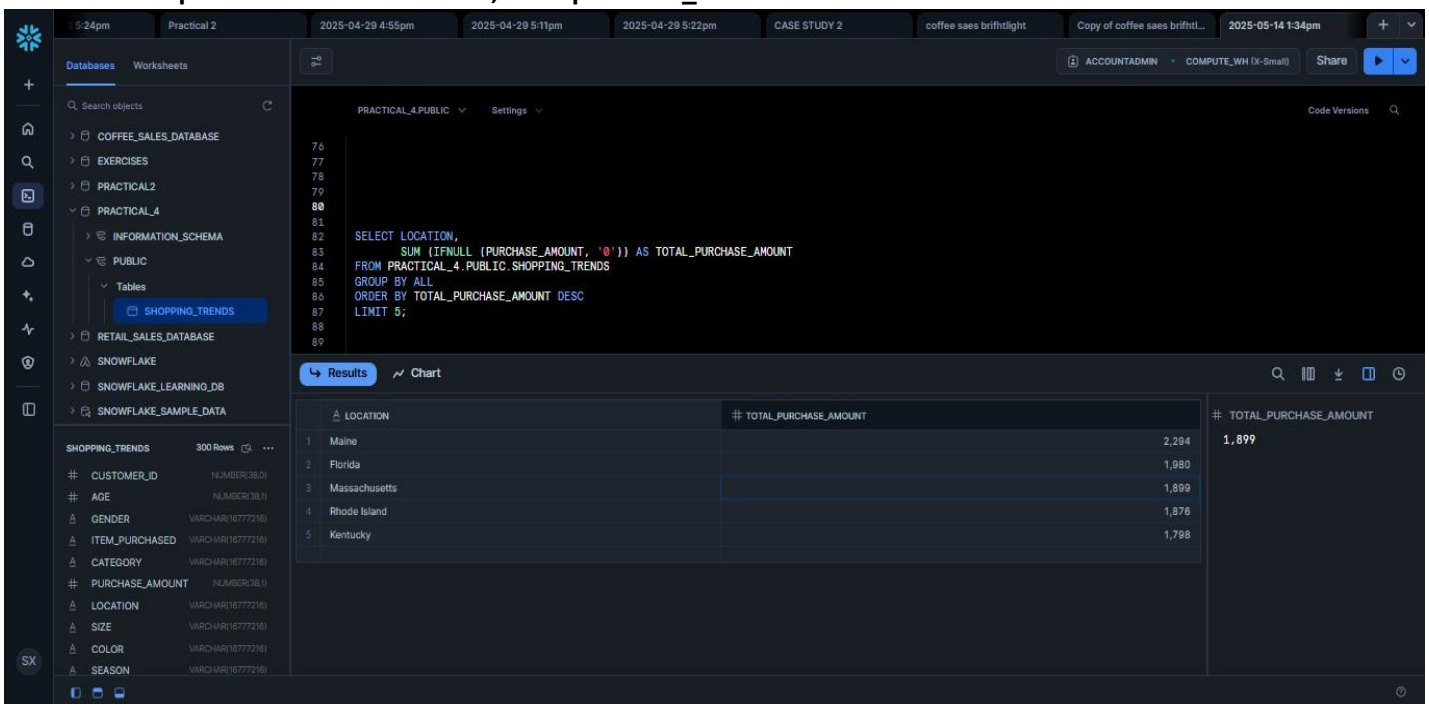
9. **Group records by Frequency of Purchases and show the total amount spent per group, treating NULL frequencies as 'Unknown'. Expected Columns: Frequency of Purchases, Total purchase_amount**



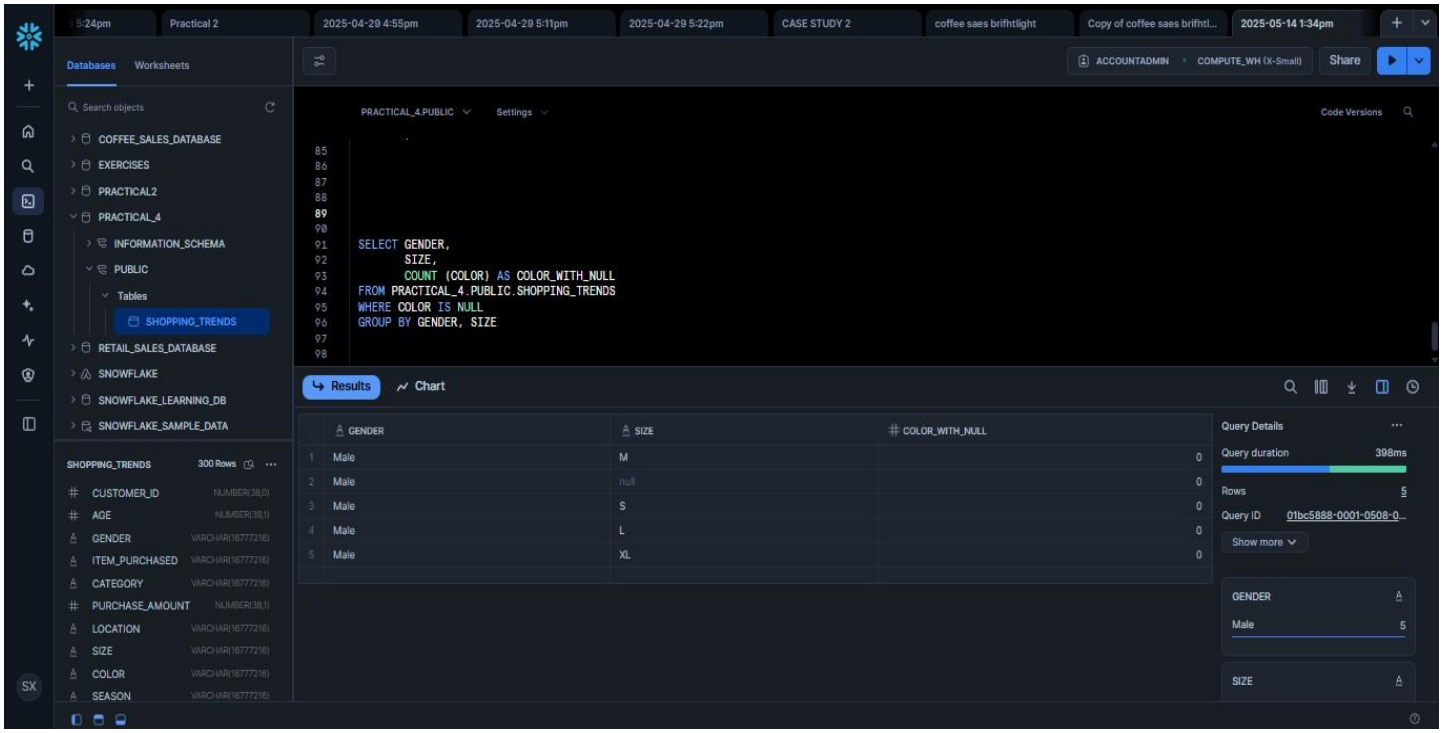
10. **Display a list of all Category values with the number of times each was purchased, excluding rows where Category is NULL. Expected Columns: Category, Total Purchases**



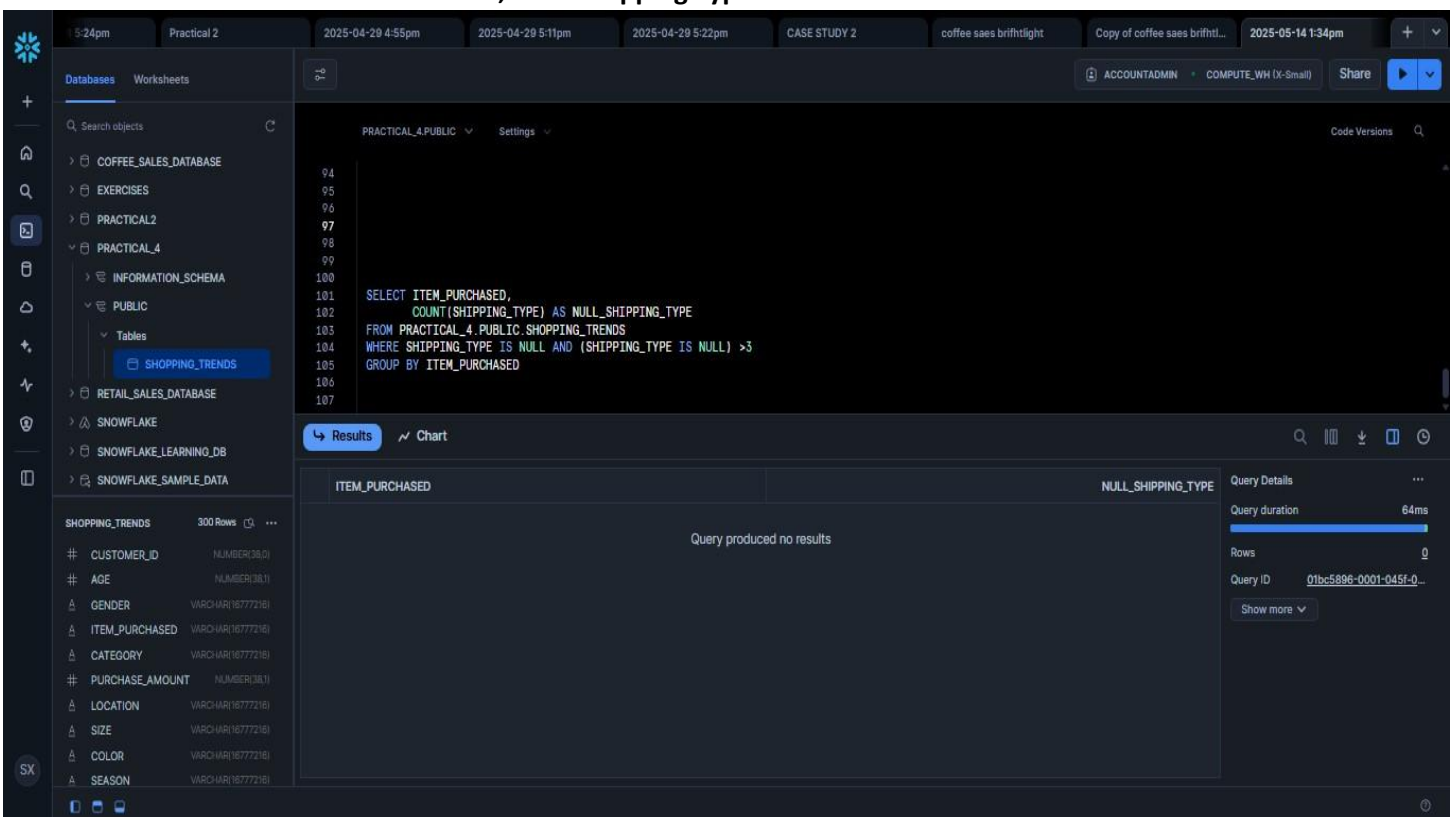
11. **Return the top 5 Locations with the highest total purchase amount, replacing NULLs with 0. Expected Columns: Location, Total purchase_amount**



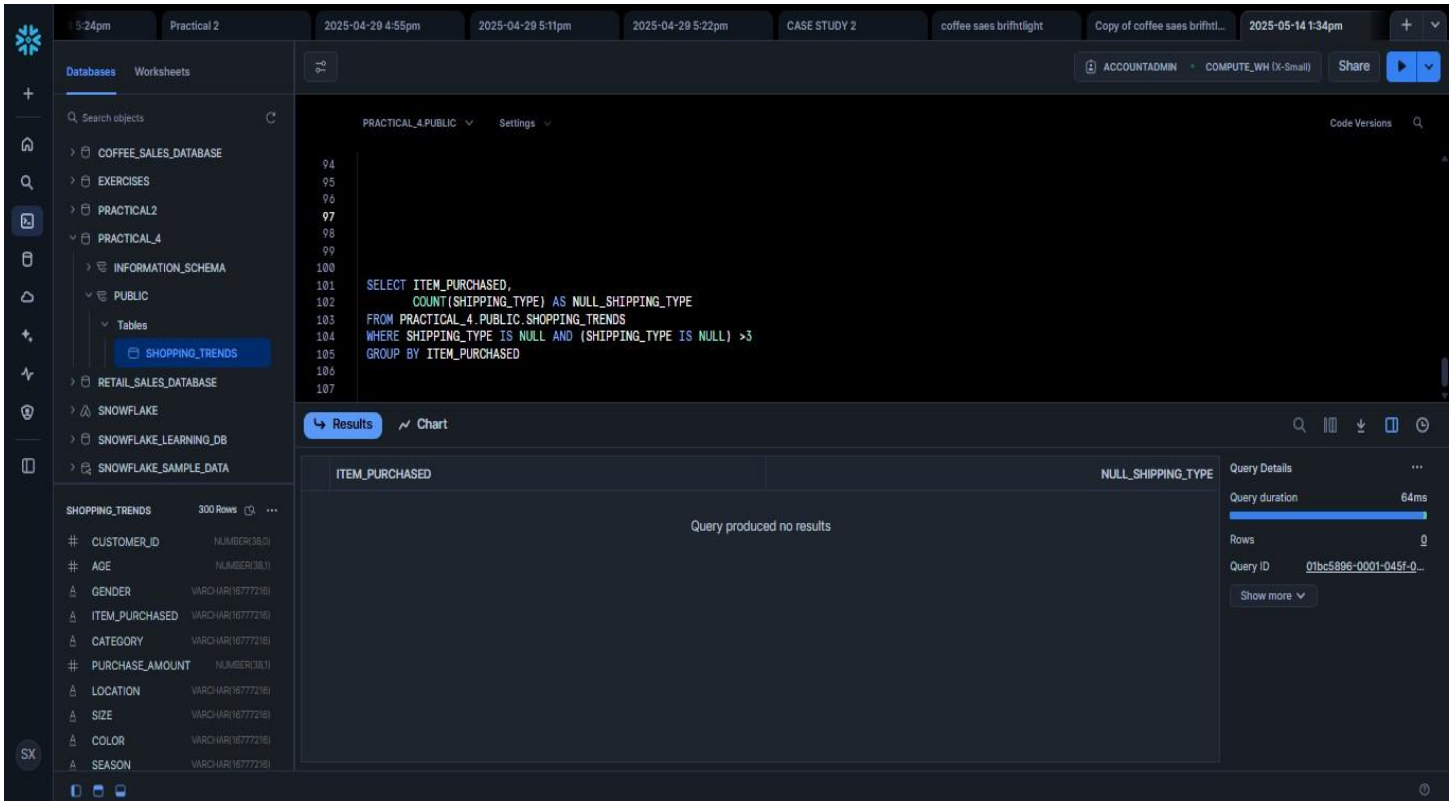
12. **Group customers by Gender and Size, and count how many entries have a NUL L Color. Expected Columns: Gender, Size, Null Color Count**



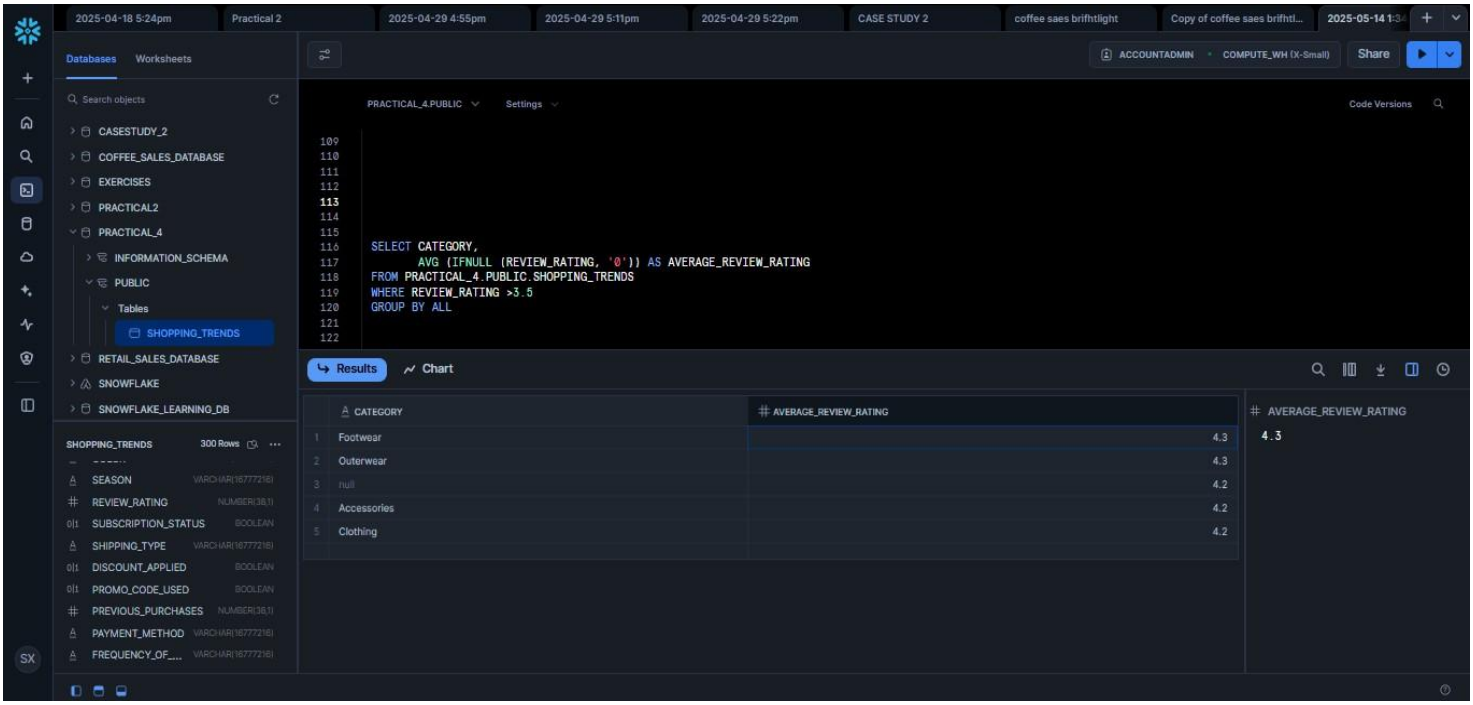
13. **Identify all Item Purchased where more than 3 purchases had NULL Shipping Type. Expected Columns: Item Purchased, NULL Shipping Type Count**



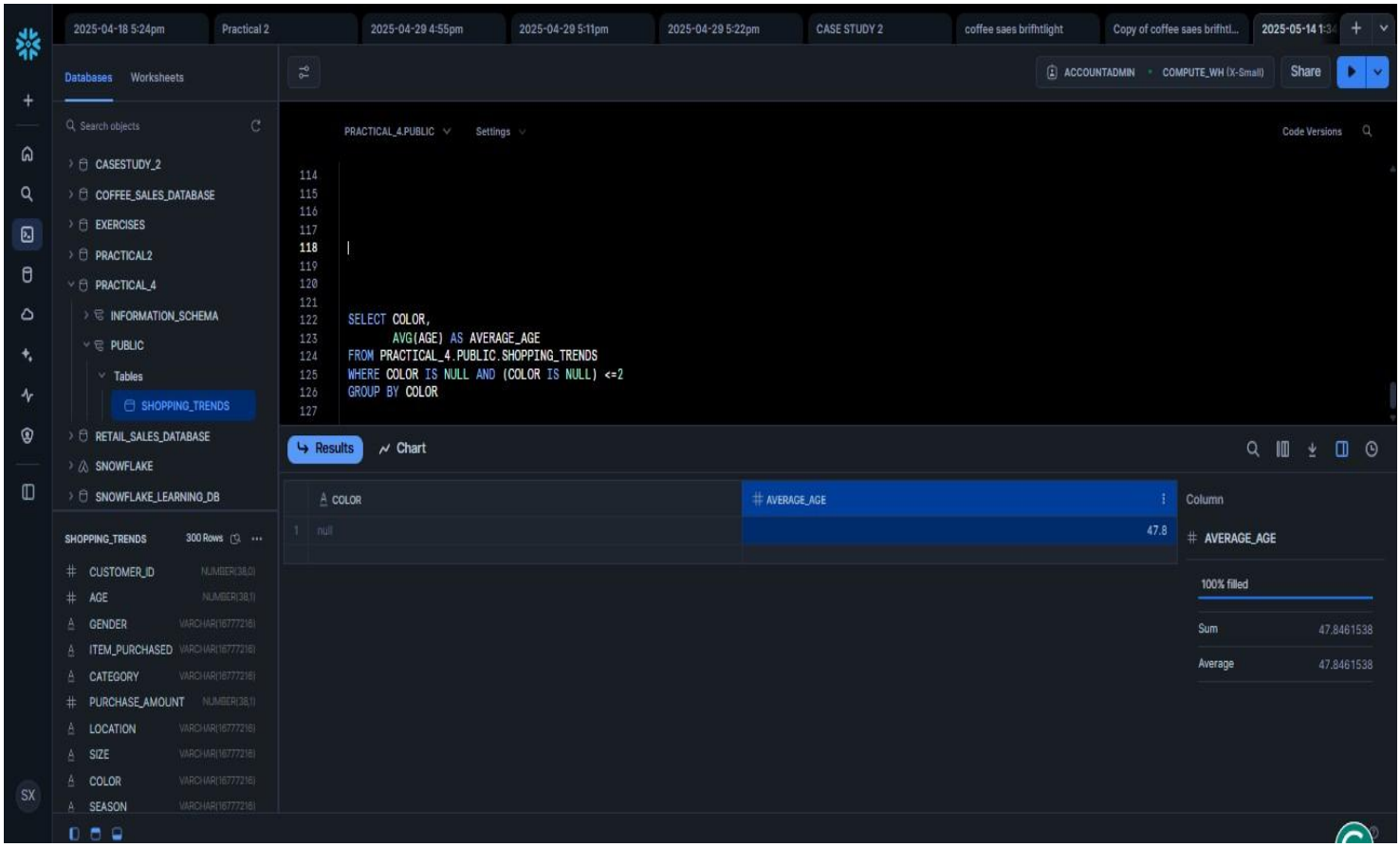
14. **Show a count of how many customers per Payment Method have NULL Review Rating. Expected Columns: Payment Method, Missing Review Rating Count**



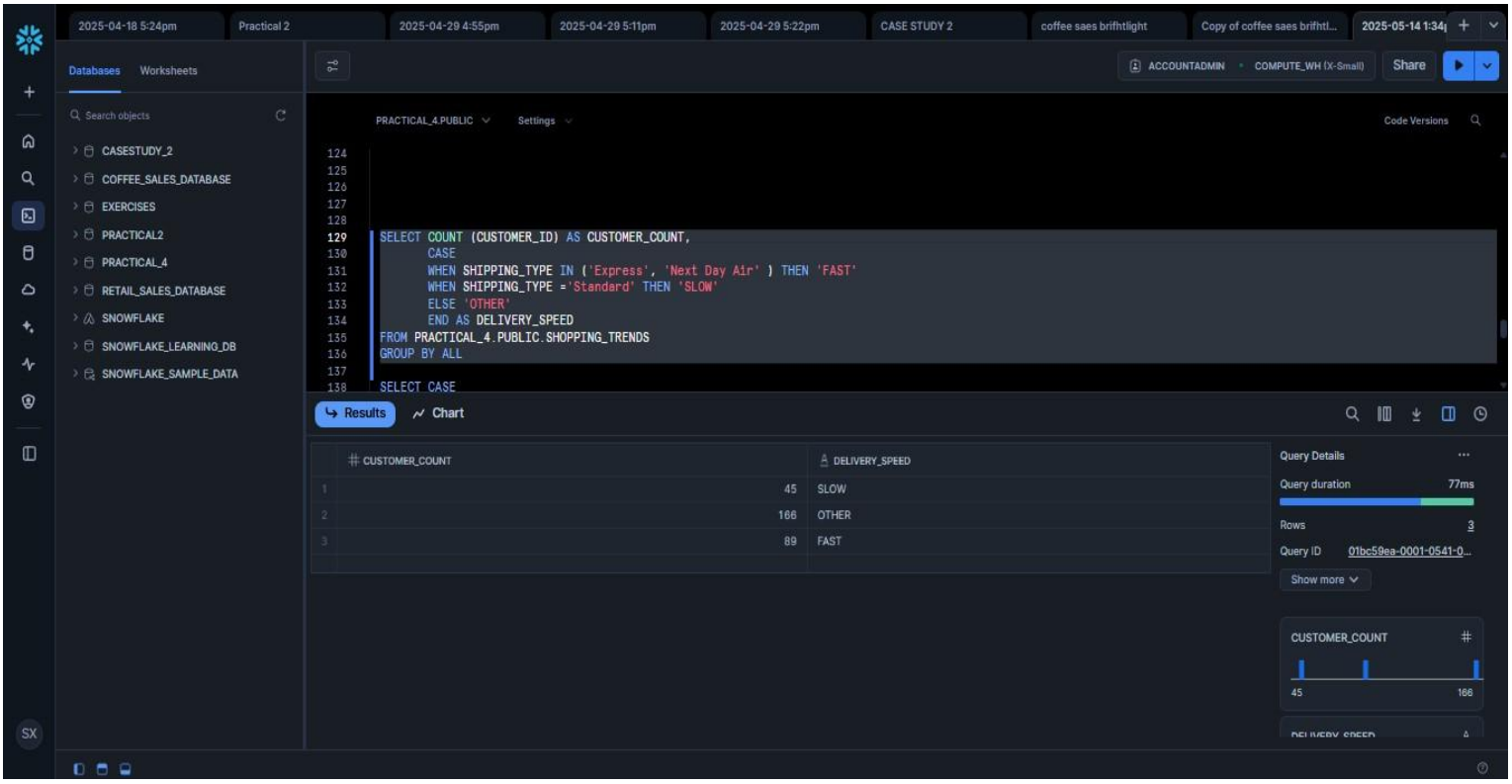
15. **Group by Category and return the average Review Rating, replacing NULLs with 0, and filter only where average is greater than 3.5. Expected Columns: Category, Average Review Rating.**



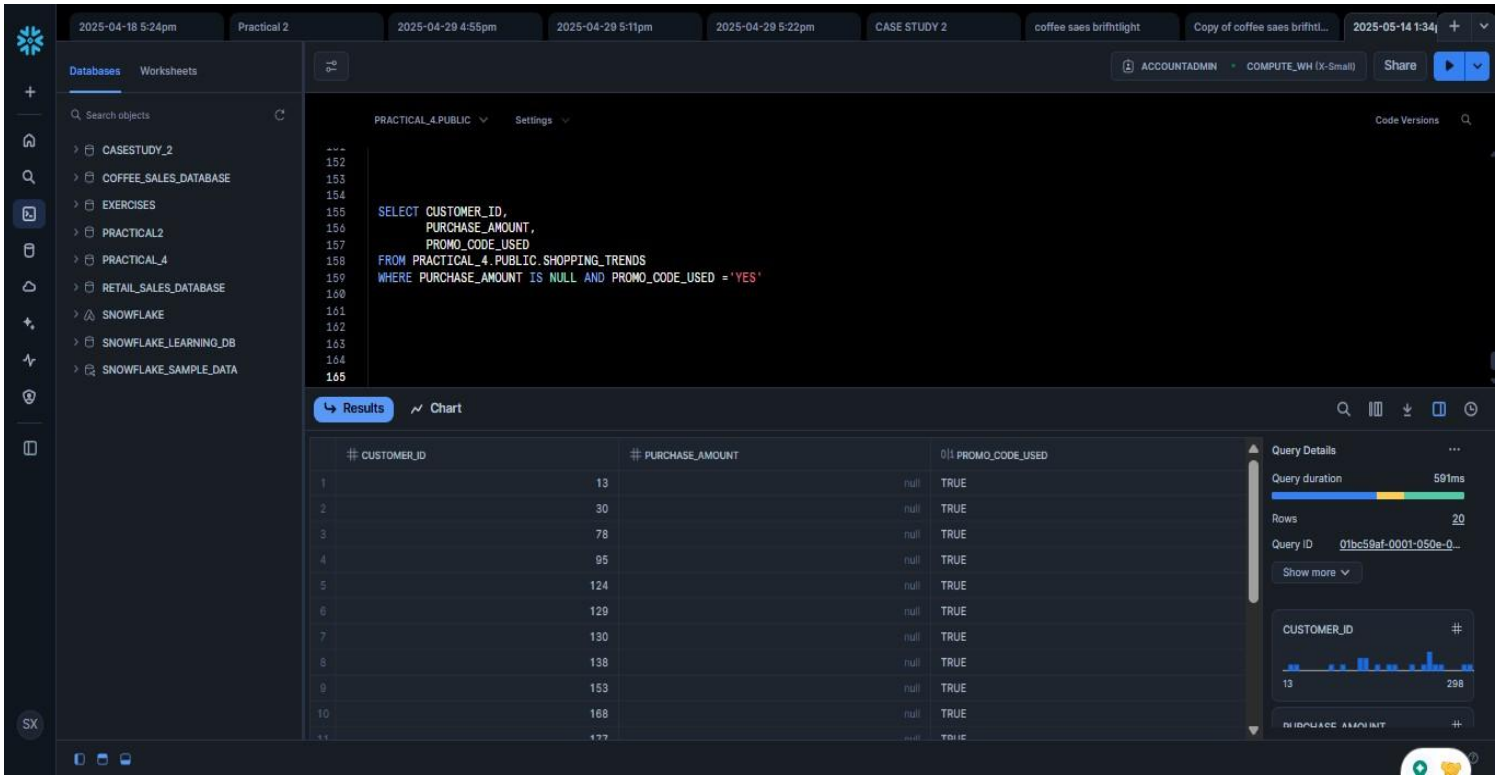
16. **List all Colors that are missing (NULL) in at least 2 rows and the average Age of customers for those rows. Expected Columns: Color, Average Age**



17. **Use CASE to create a column Delivery Speed: 'Fast' if Shipping Type is 'Express' or 'Next Day Air', 'Slow' if 'Standard', 'Other' for all else including NULL. Then count how many customers fall into each category.**

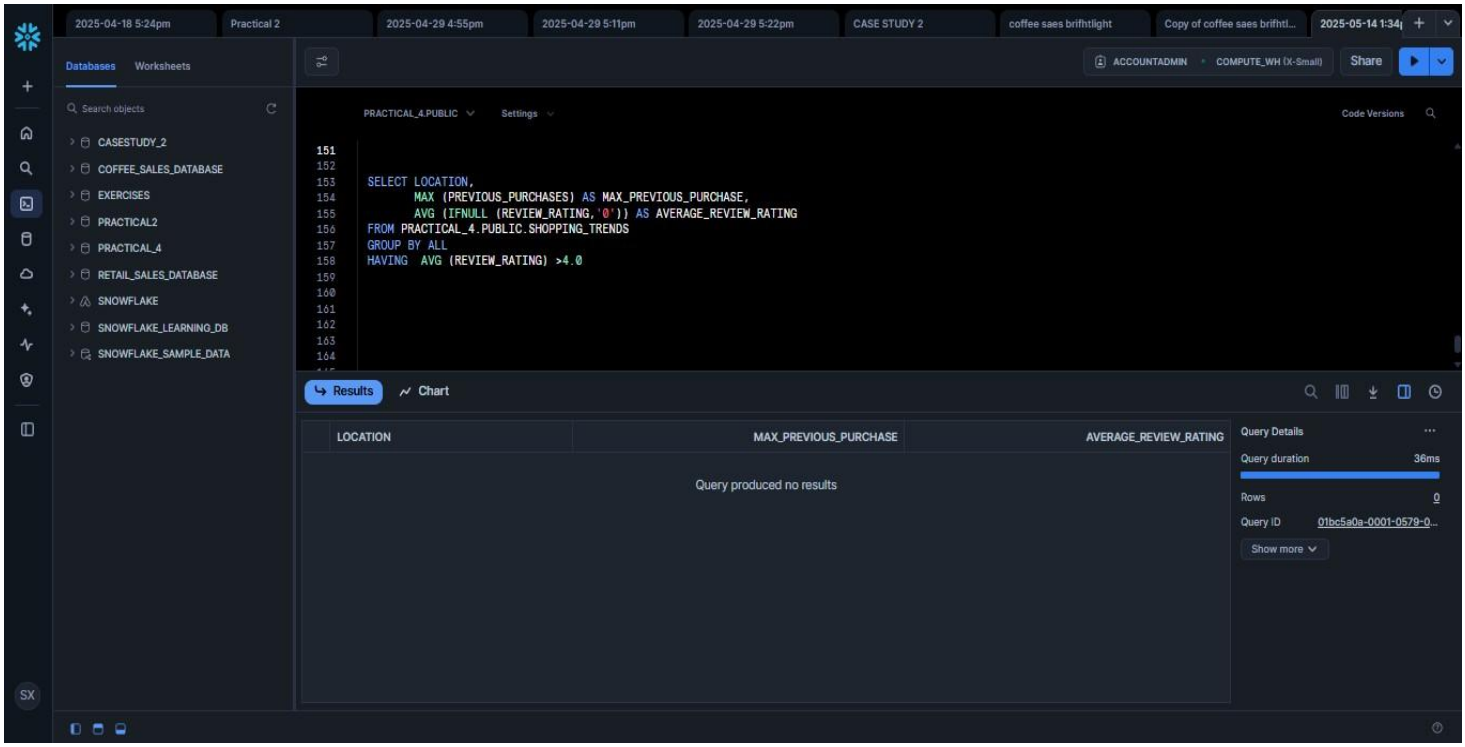


18. **Find customers whose purchase_amount is NULL and whose Promo Code Used is 'Yes'. Expected Columns: Customer ID, purchase_amount, Promo Code Used**



19. **Group by Location and show the maximum Previous Purchases, replacing NULLs with**

0, only where the average rating is above 4.0. Expected Columns: Location, Max Previous Purchases, Average Review Rating



20. **Show customers who have a NULL Shipping Type but made a purchase in the range of 30 to 70 USD. Expected Columns: Customer ID, Shipping Type, purchase_amount, Item Purchased**