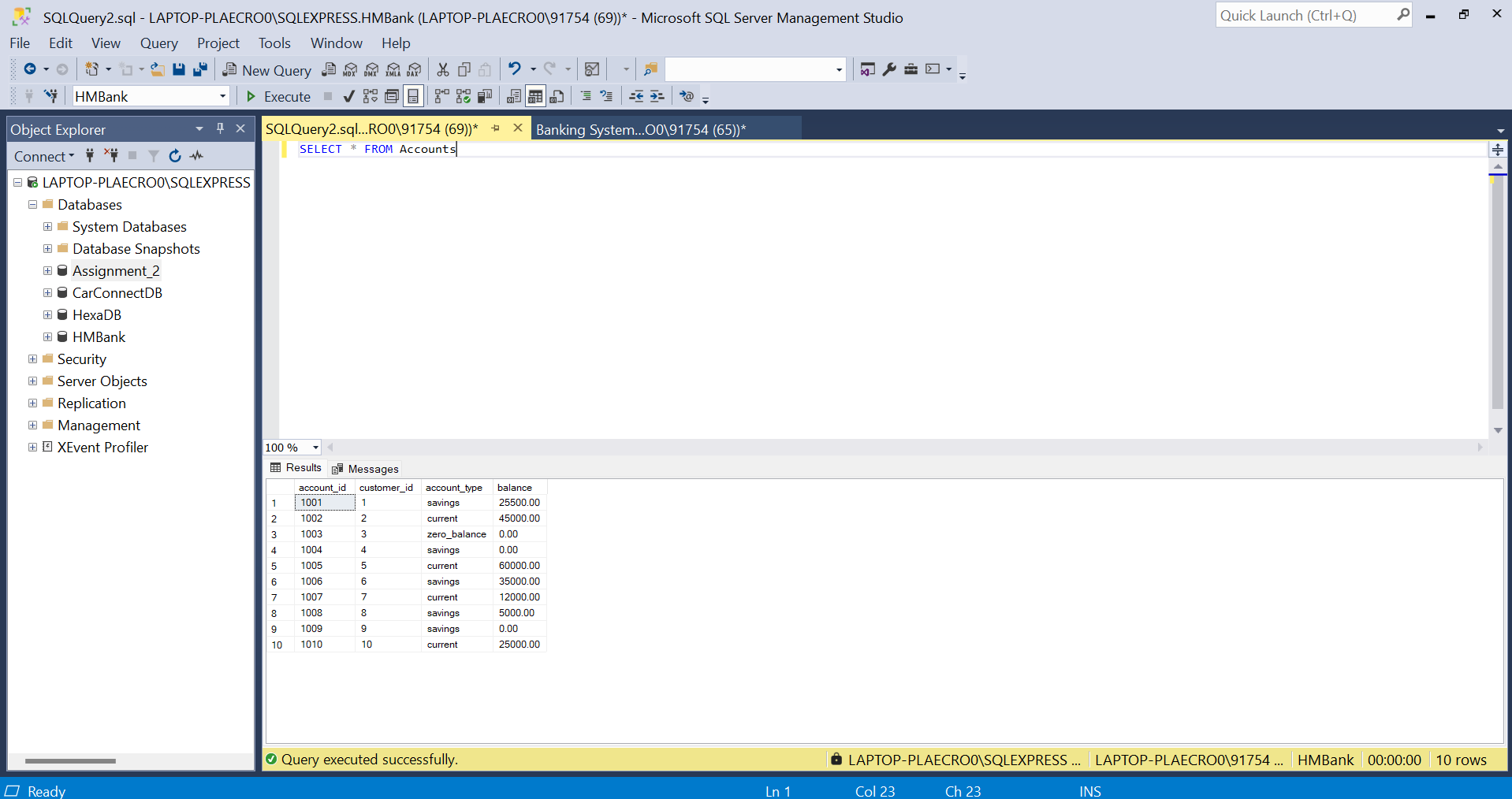
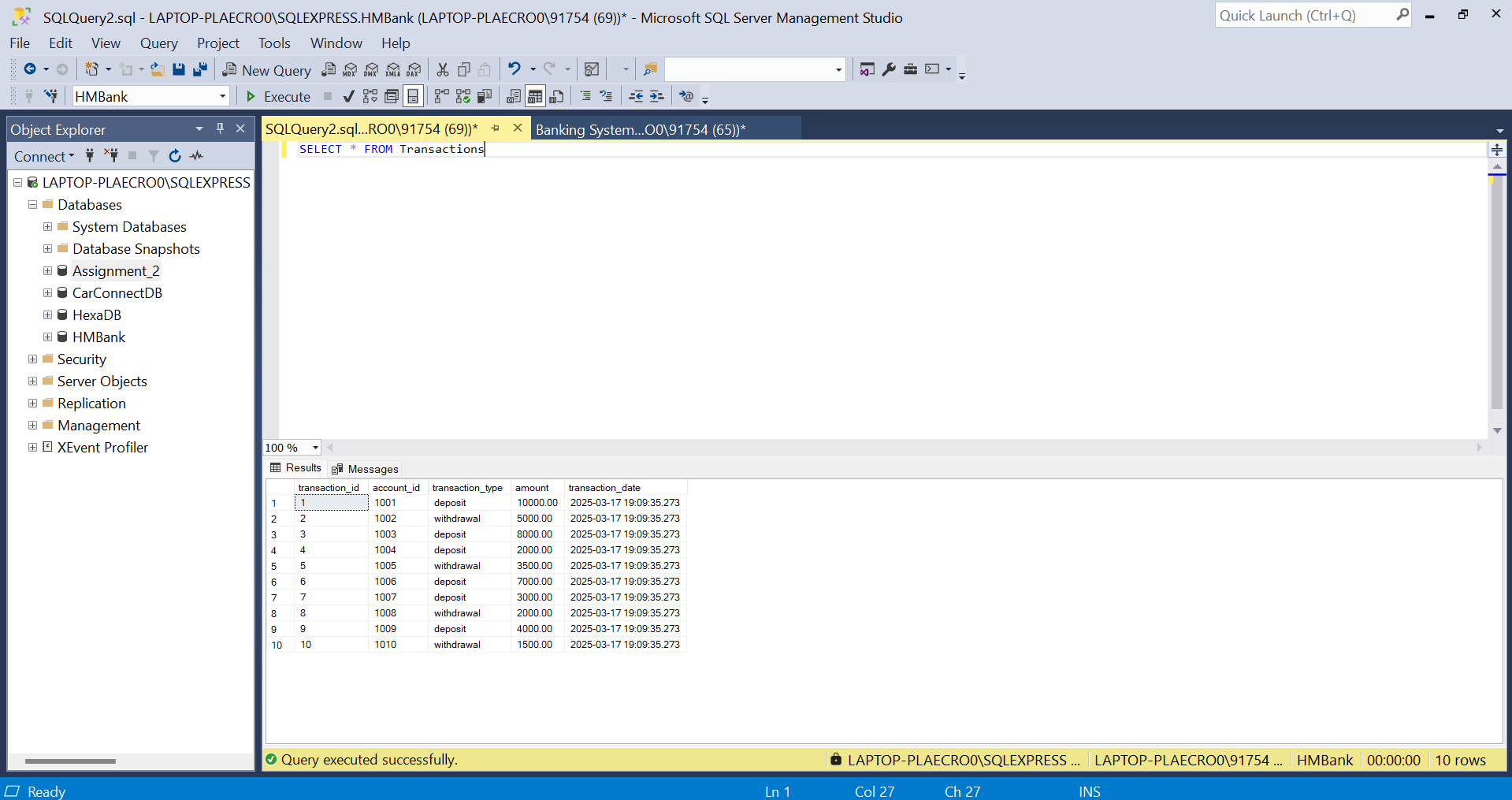
BANKING SYSTEM

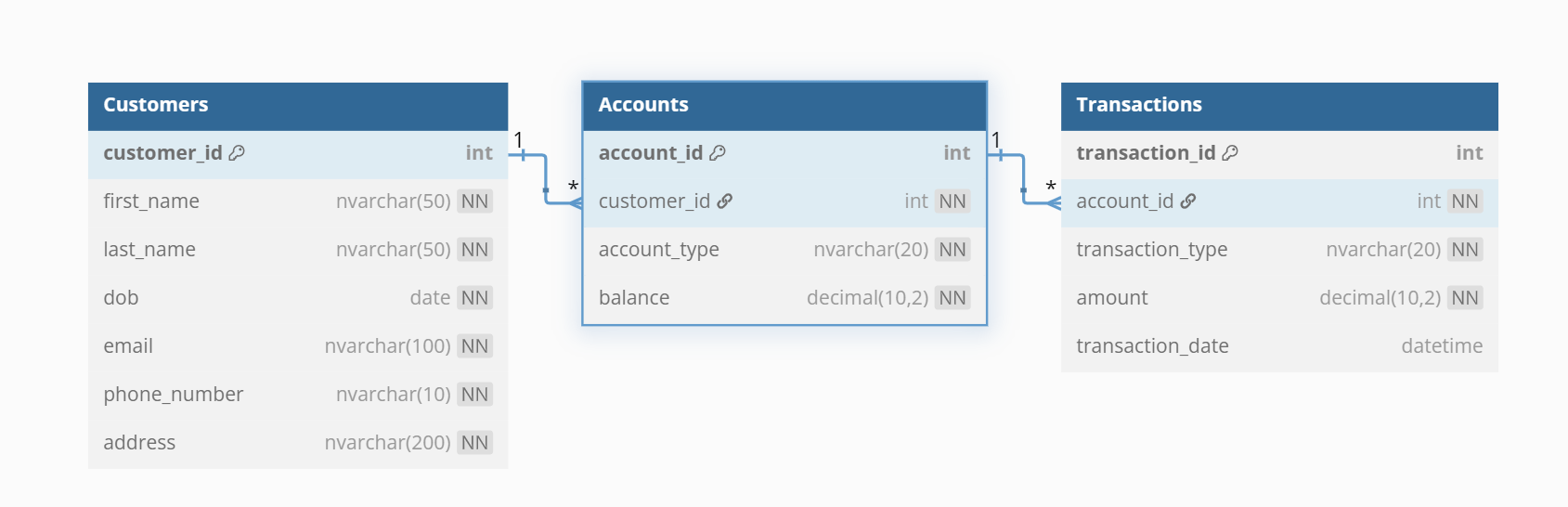
Tasks 1: Database Design

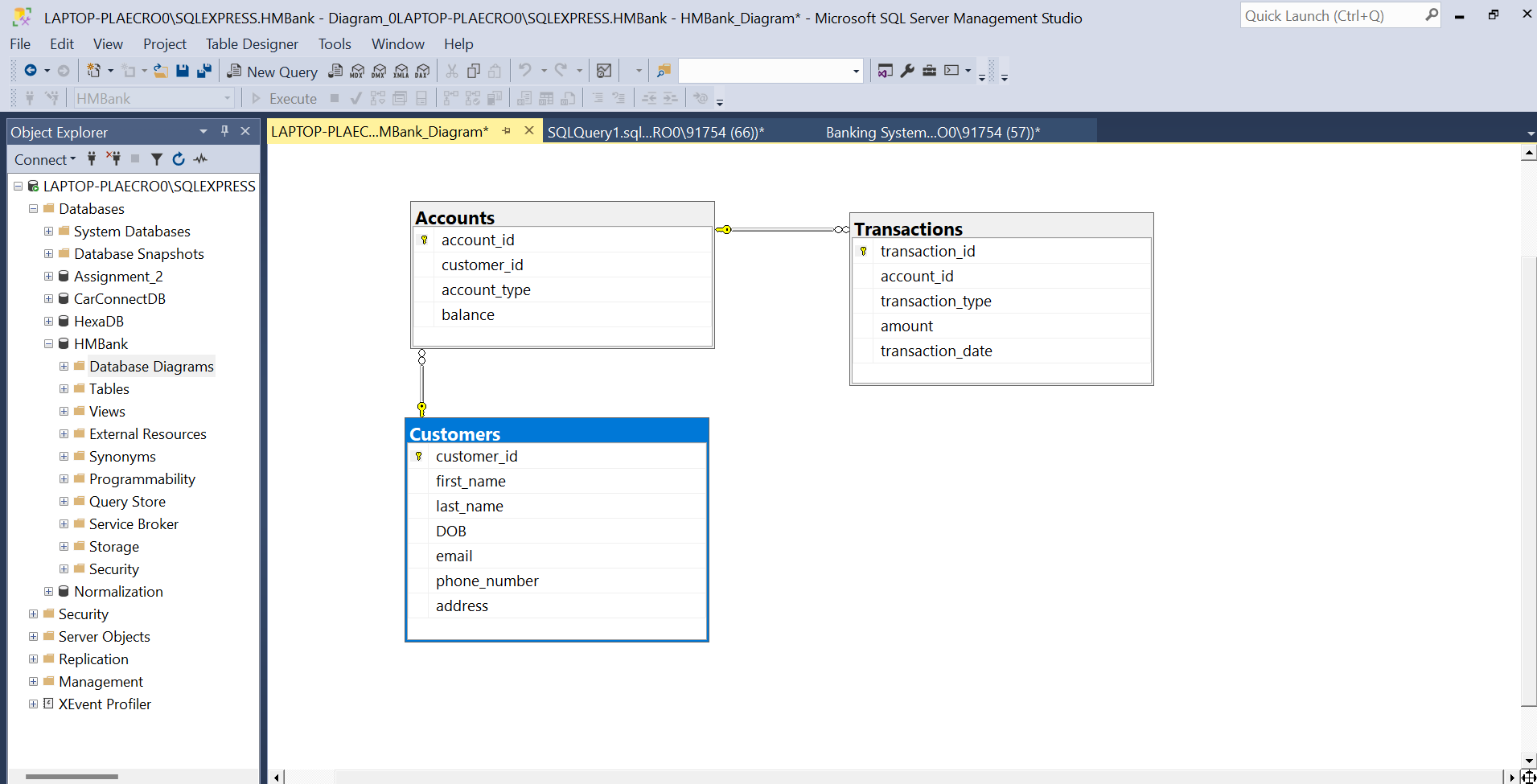






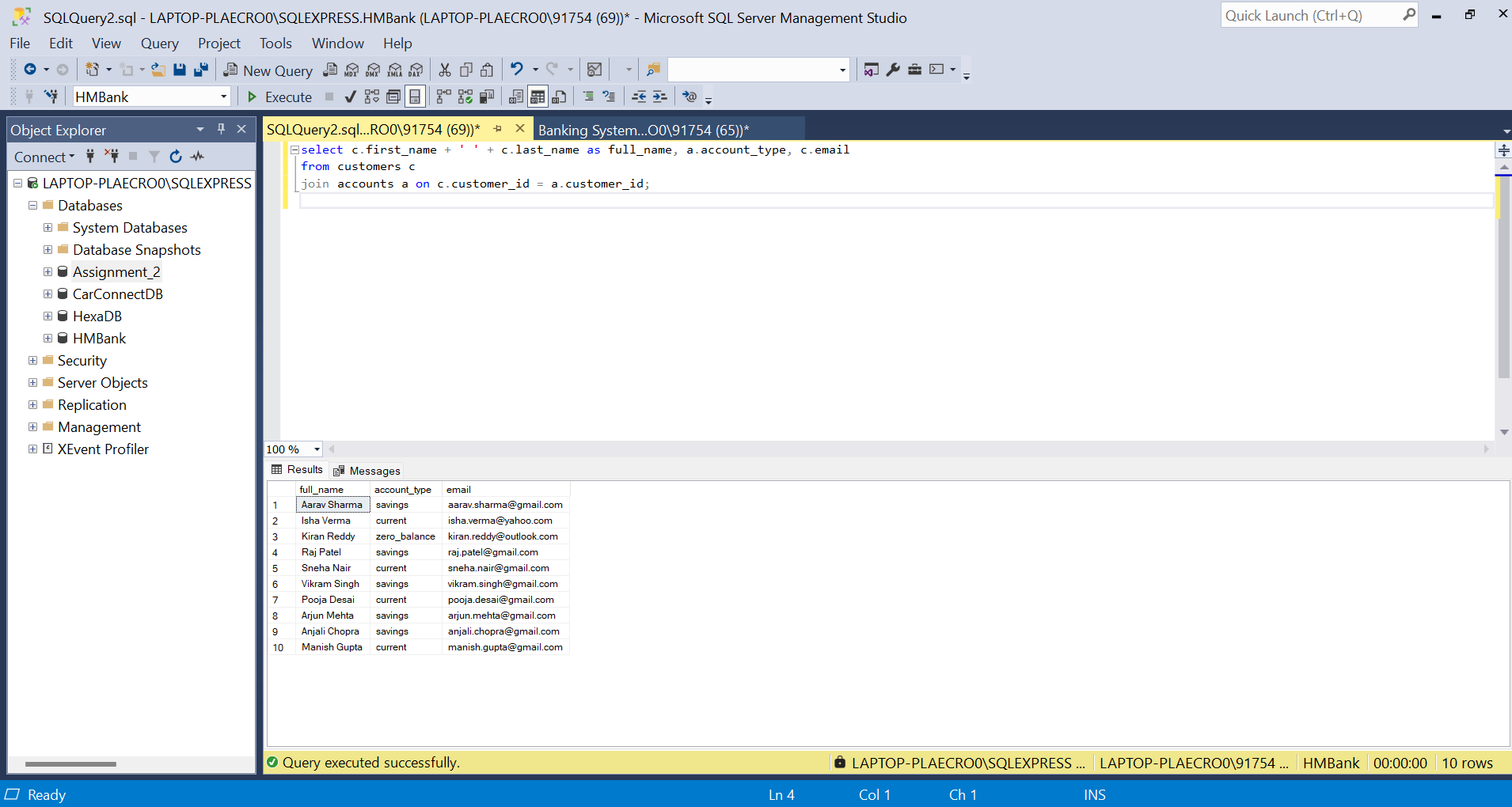
ER Diagram



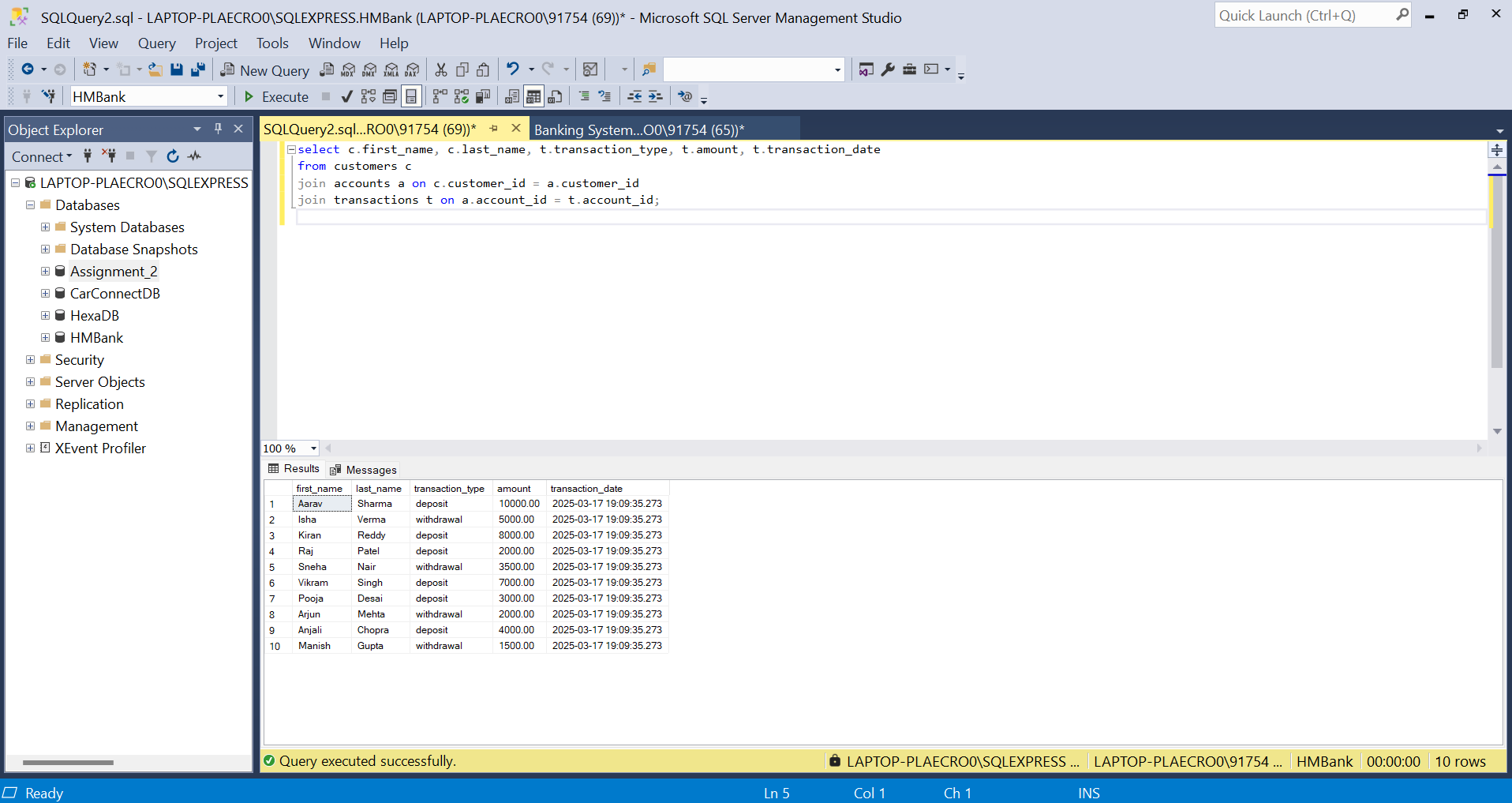


Tasks 2: Select, Where, Between, AND, LIKE

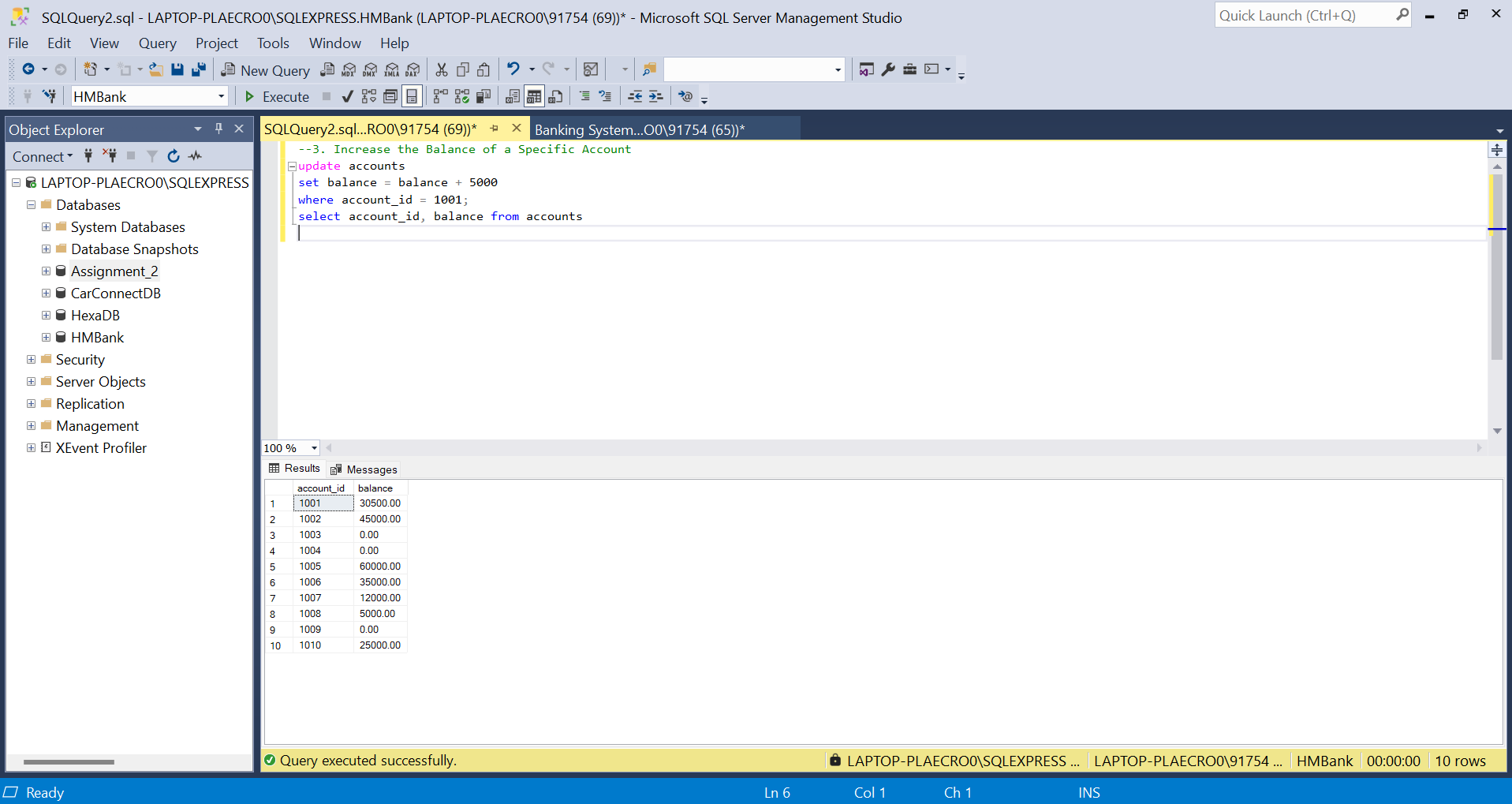
Q1. Name, Account type and email of all Customer



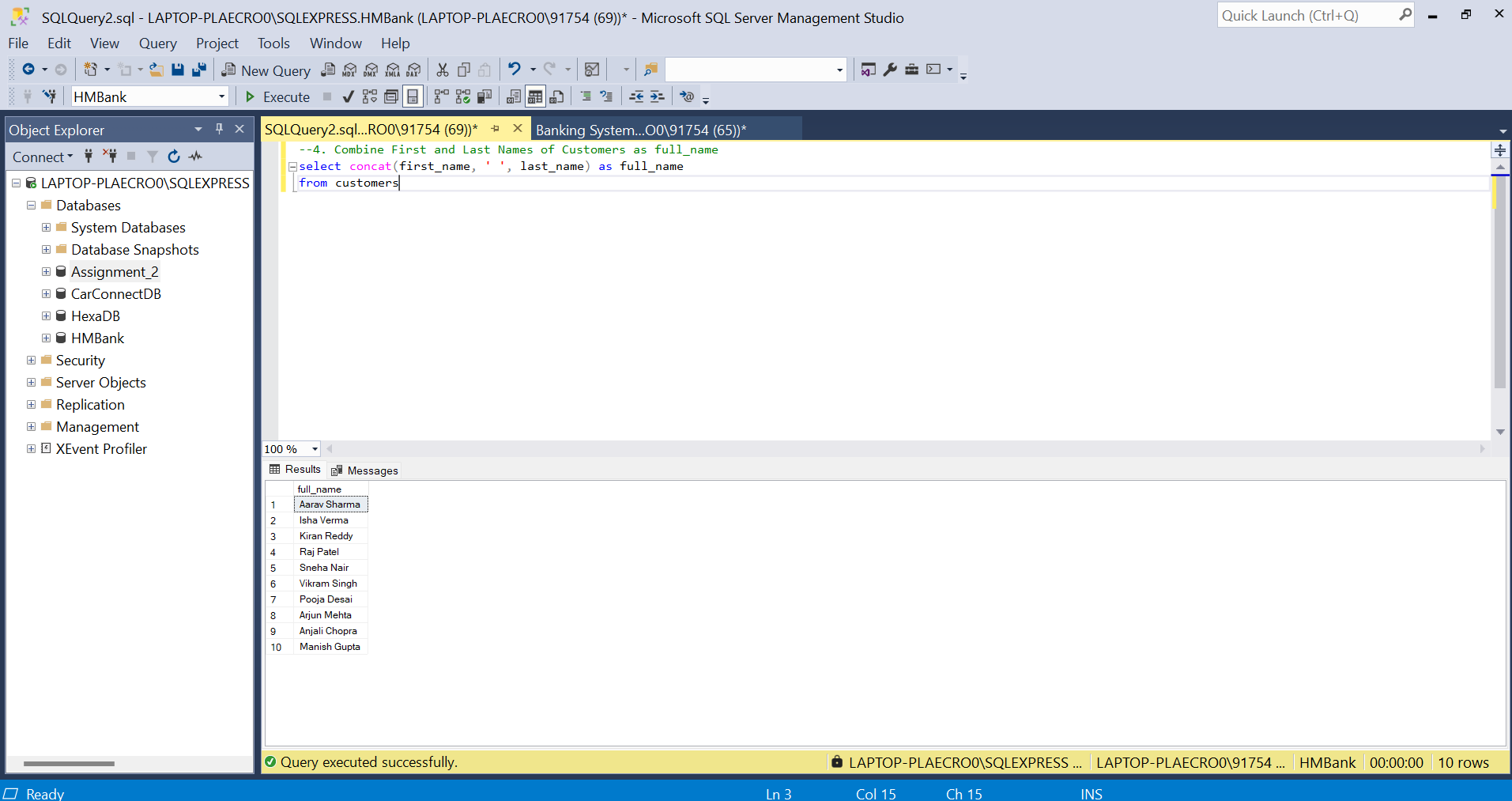
Q2. List All Transactions Corresponding to corresponding Customer



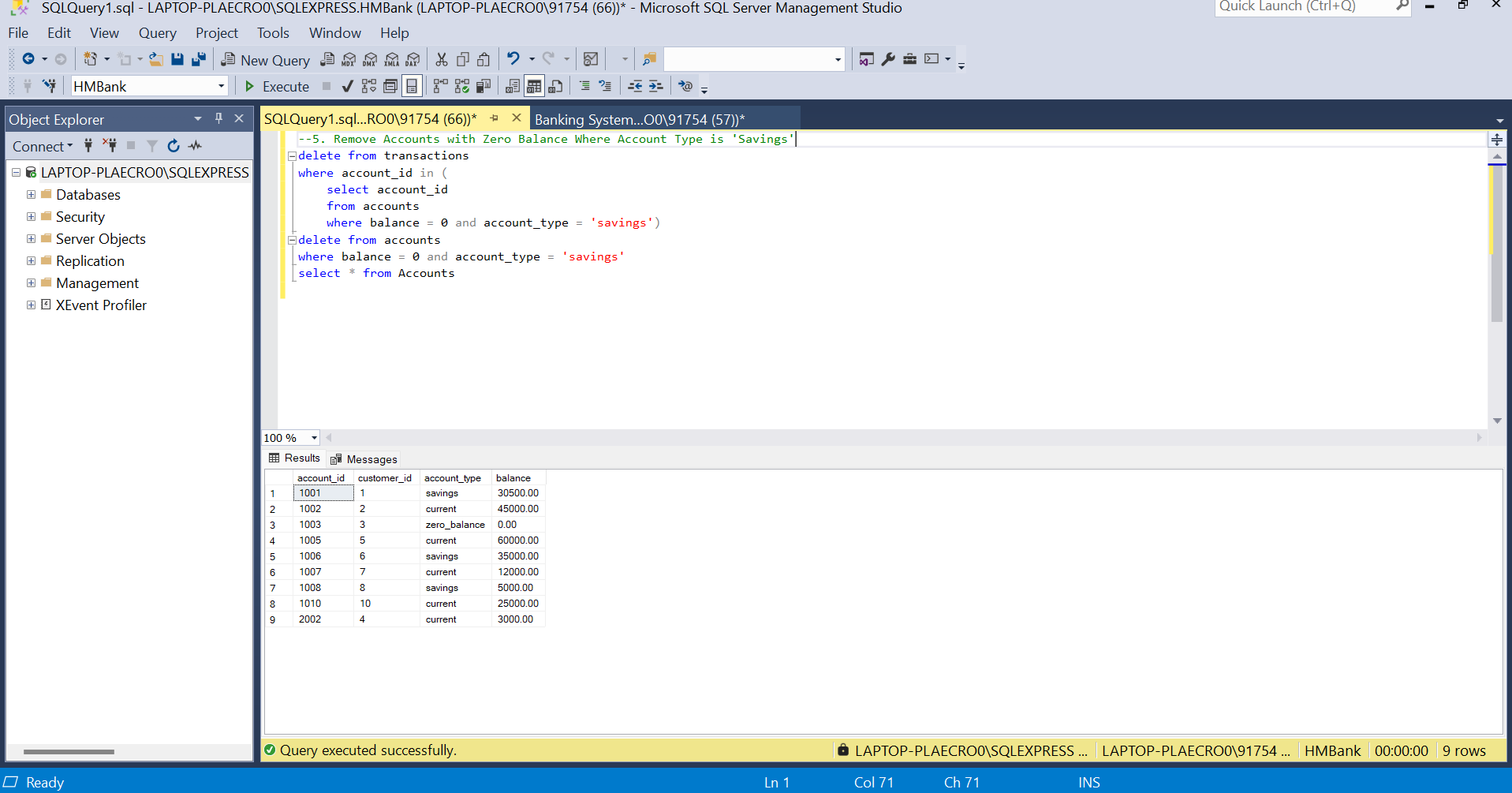
Q3. Increase the Balance of a Specific Account



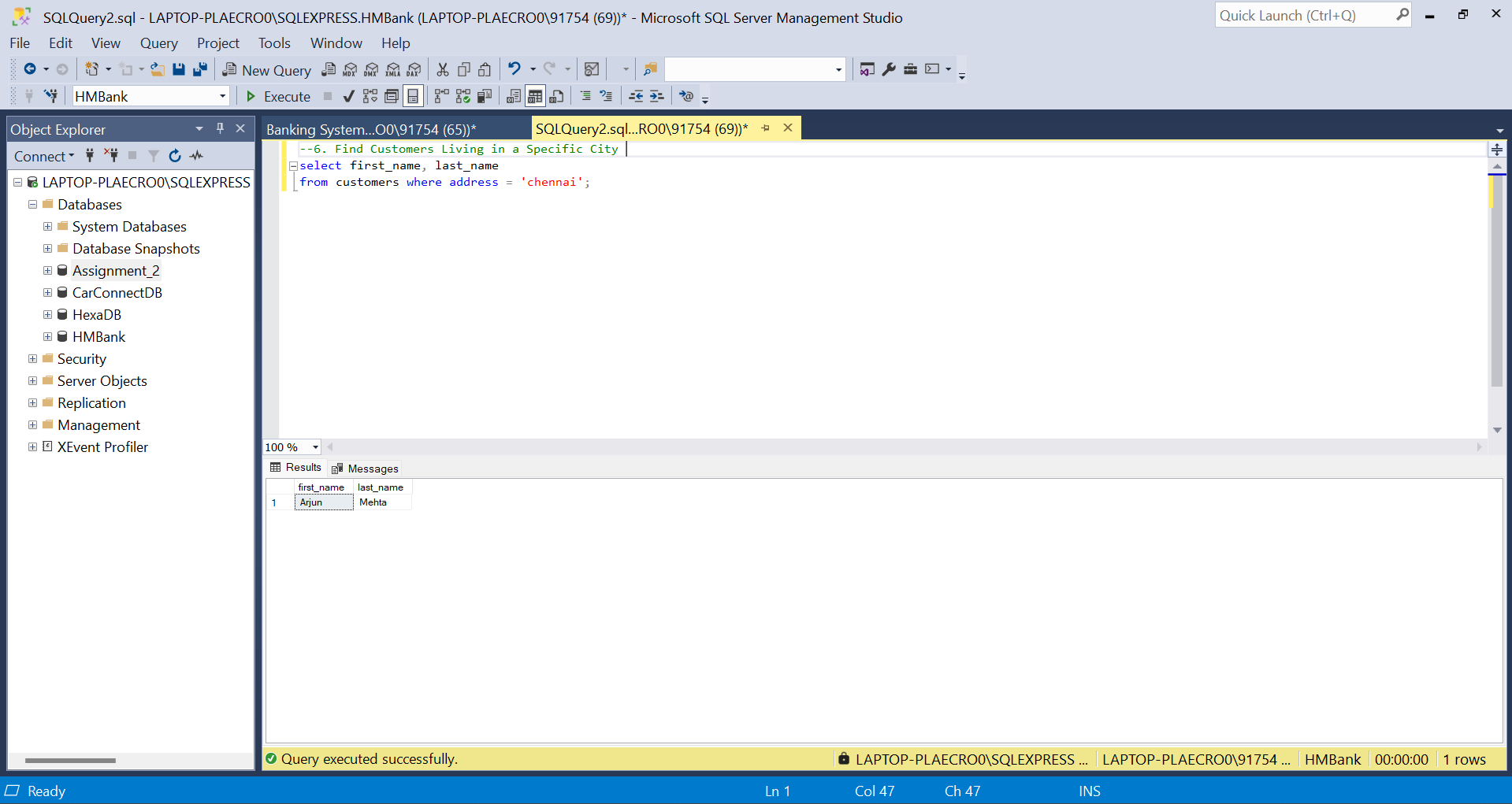
Q4. Combine First and Last Names of Customers as full\_name



Q5. Remove Accounts with Zero Balance Where Account Type is 'Savings'



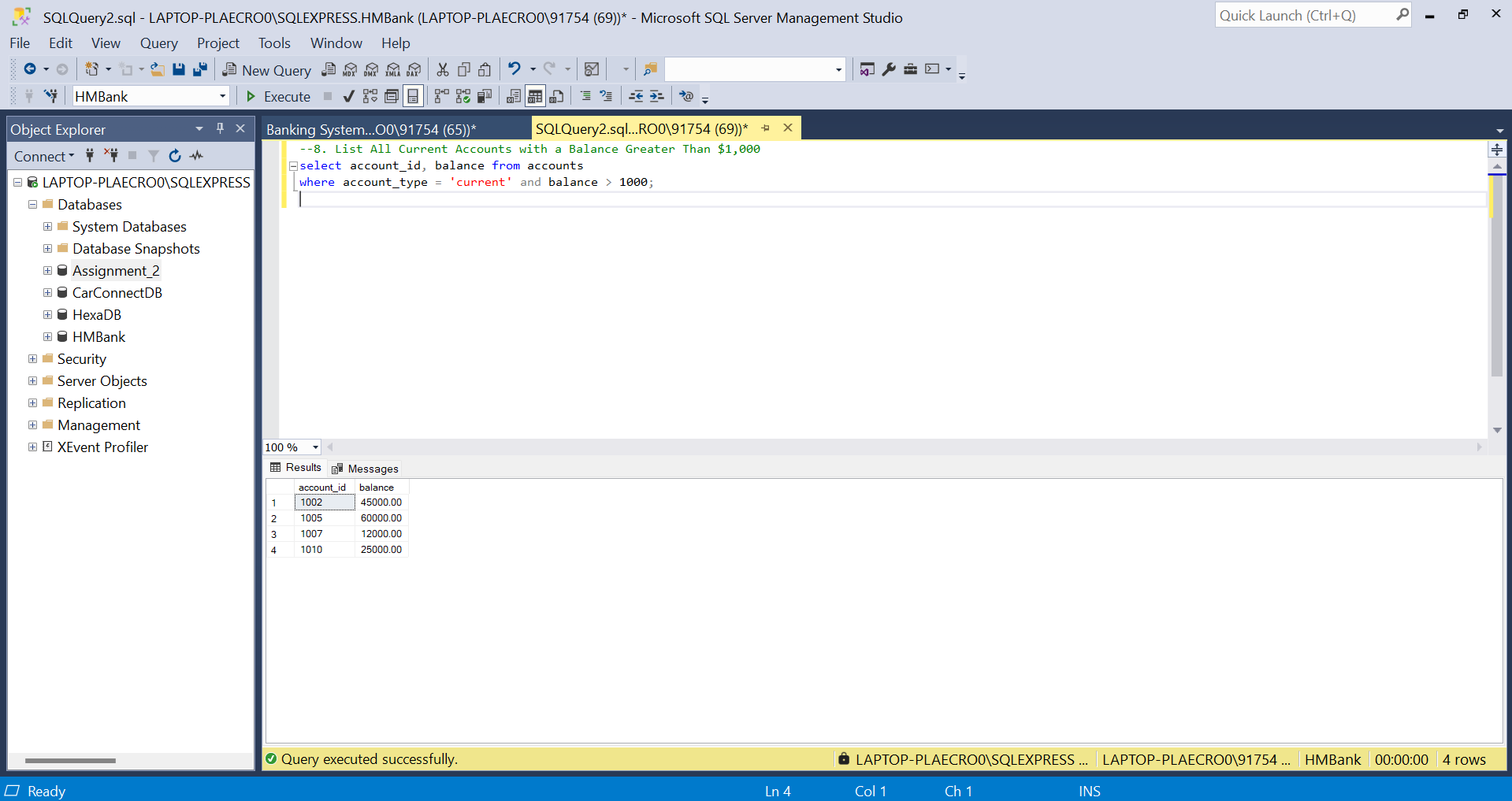
Q6. Find Customers Living in a Specific City



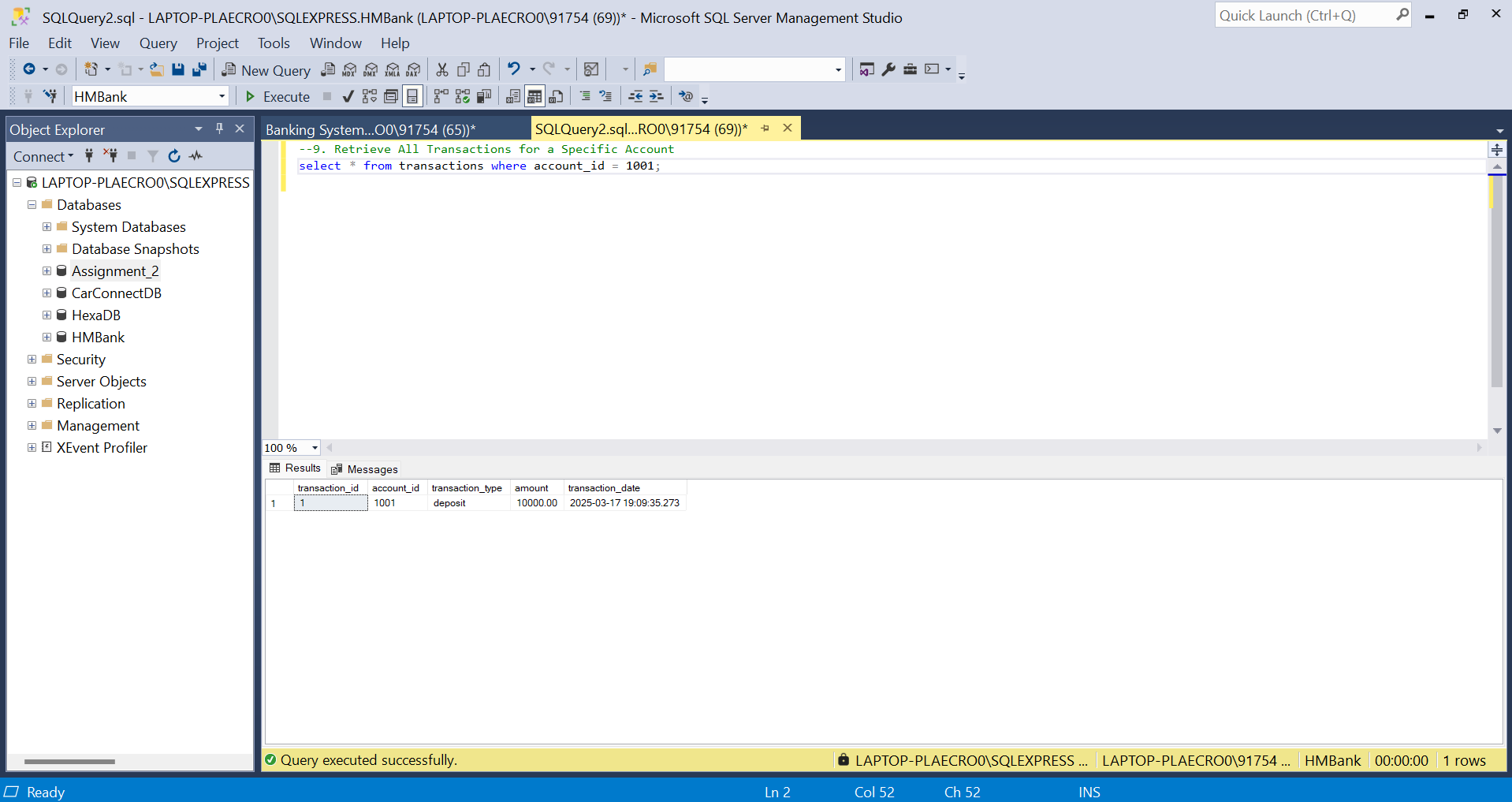
Q7. Get the Account Balance for a Specific Account



Q8. List All Current Accounts with a Balance Greater Than $1,000

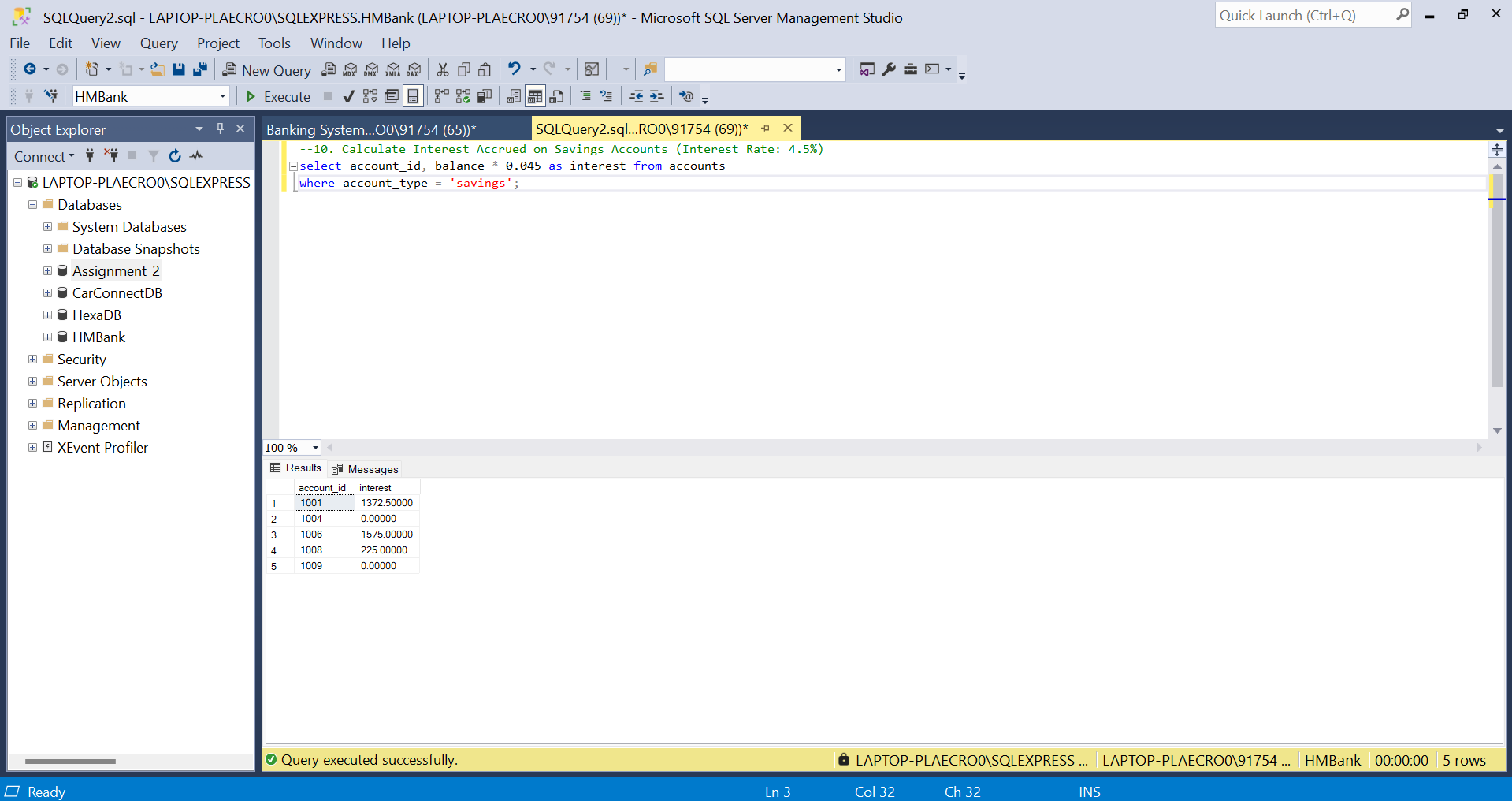


Q9. Retrieve All Transactions for a Specific Account

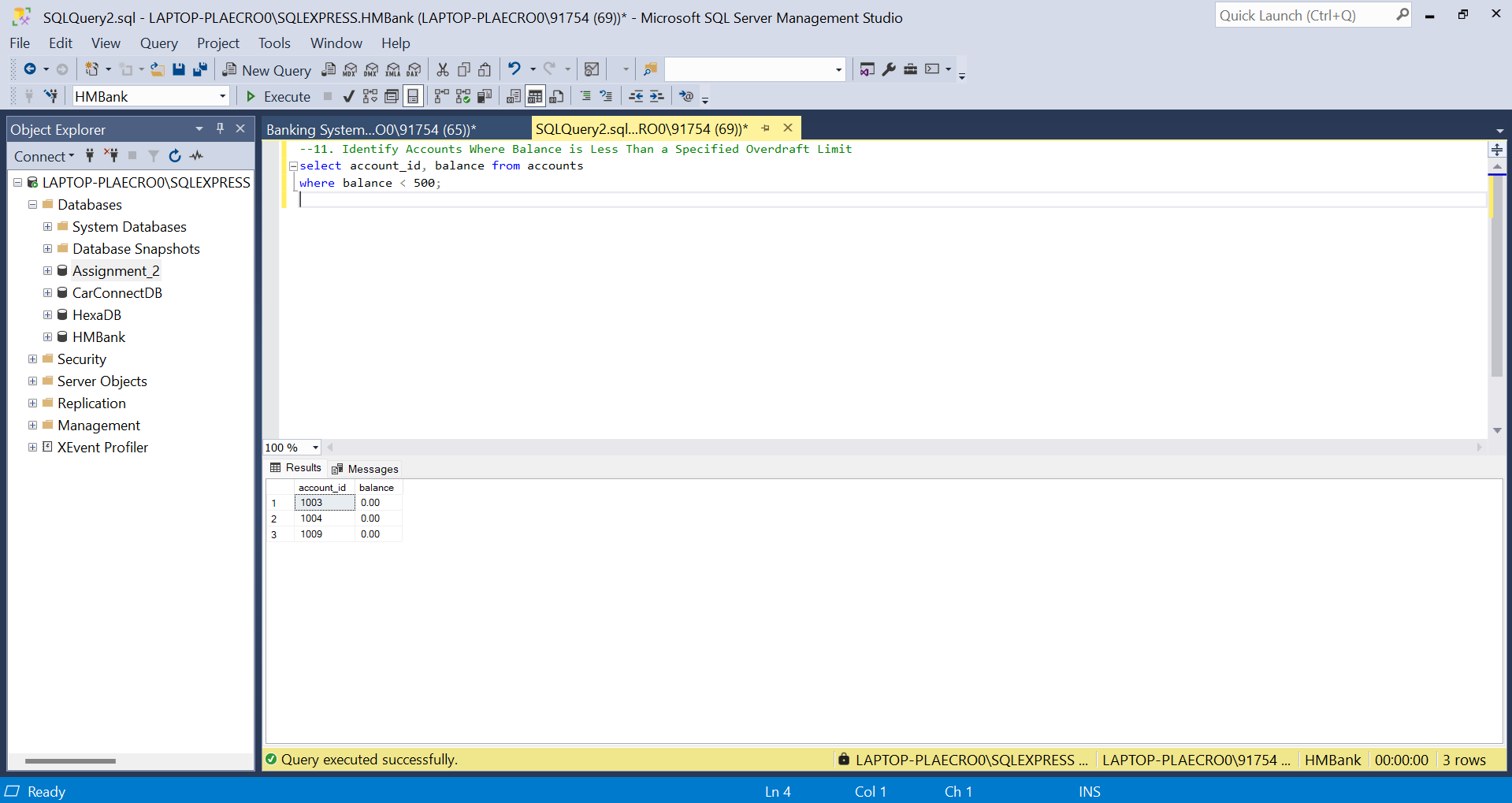


Q10. Calculate Interest Accrued on Savings Accounts

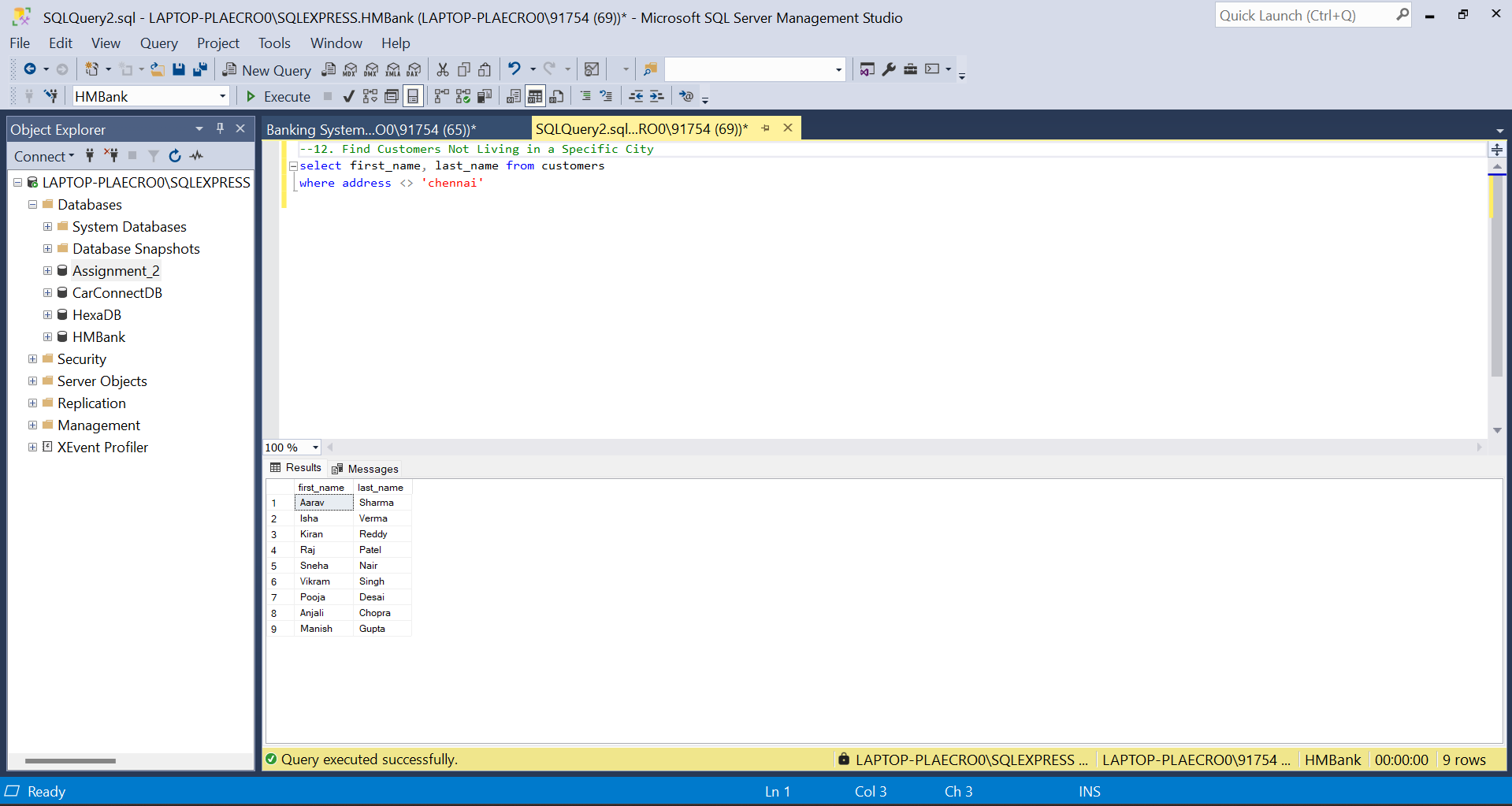
(Interest Rate: 4.5%)



Q11. Identify Accounts Where Balance is Less Than a Specified Overdraft Limit

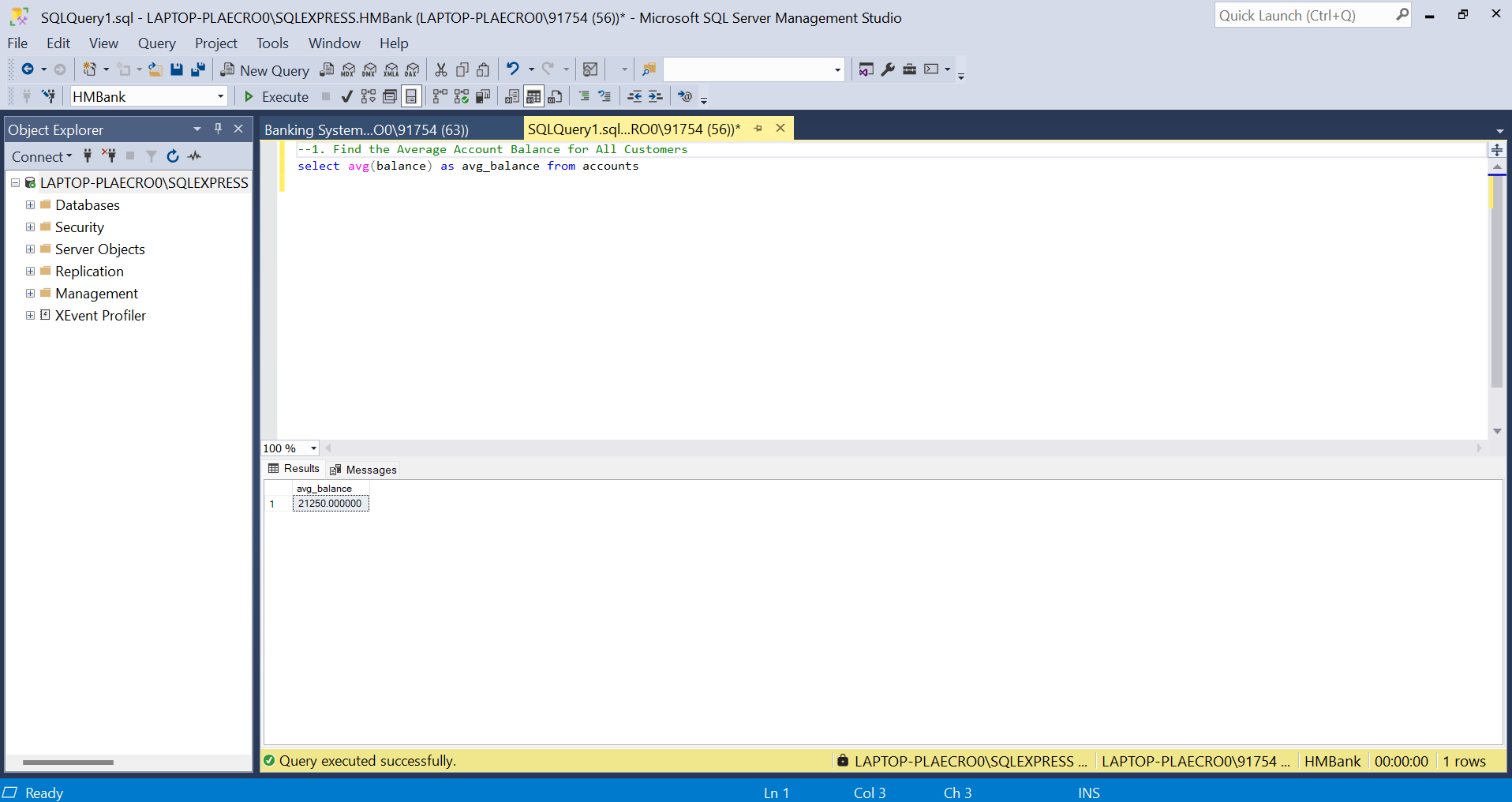


Q12. Find Customers Not Living in a Specific City

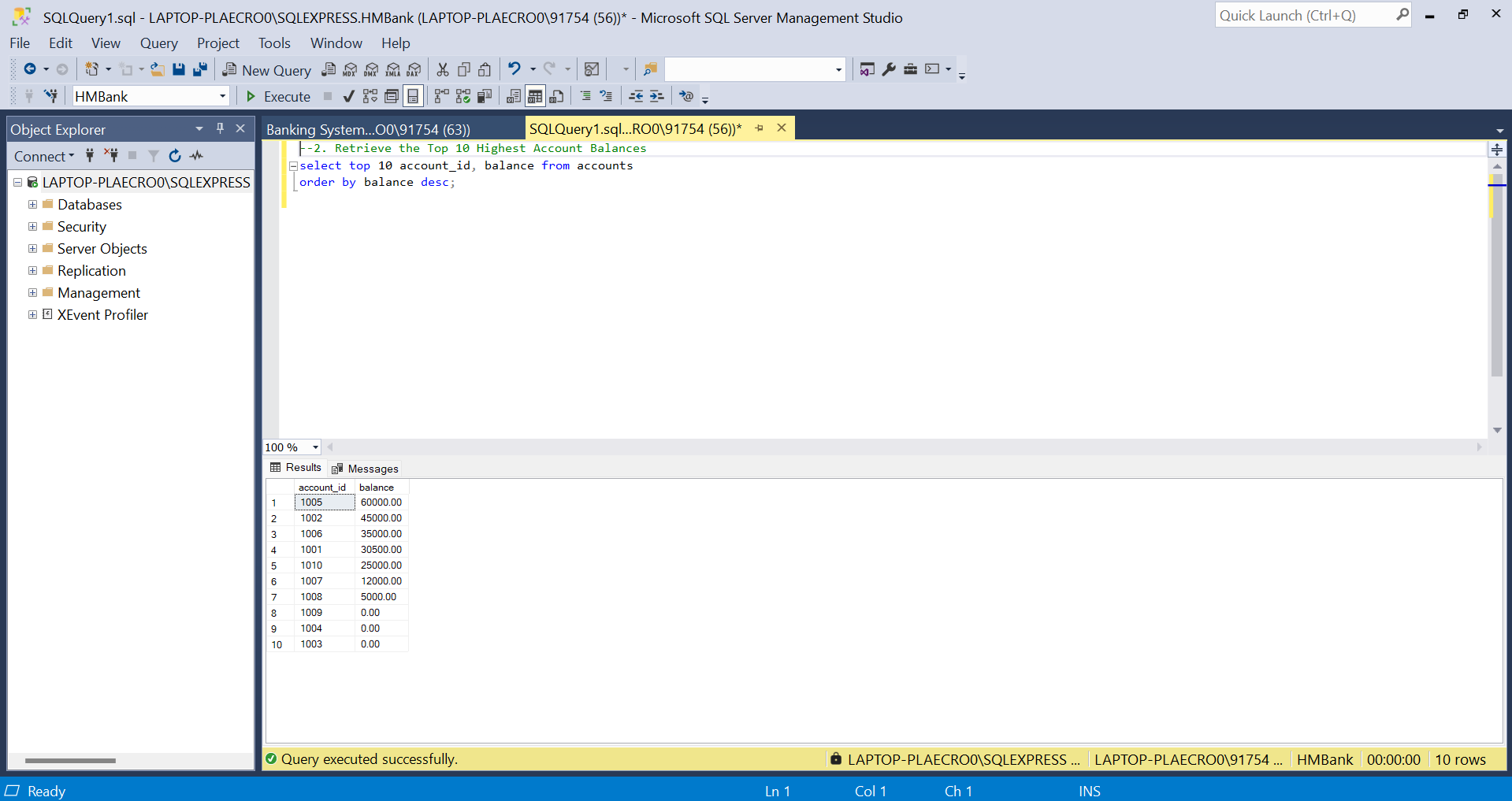


Tasks 3: Aggregate functions, Having, Order By, GroupBy and Joins

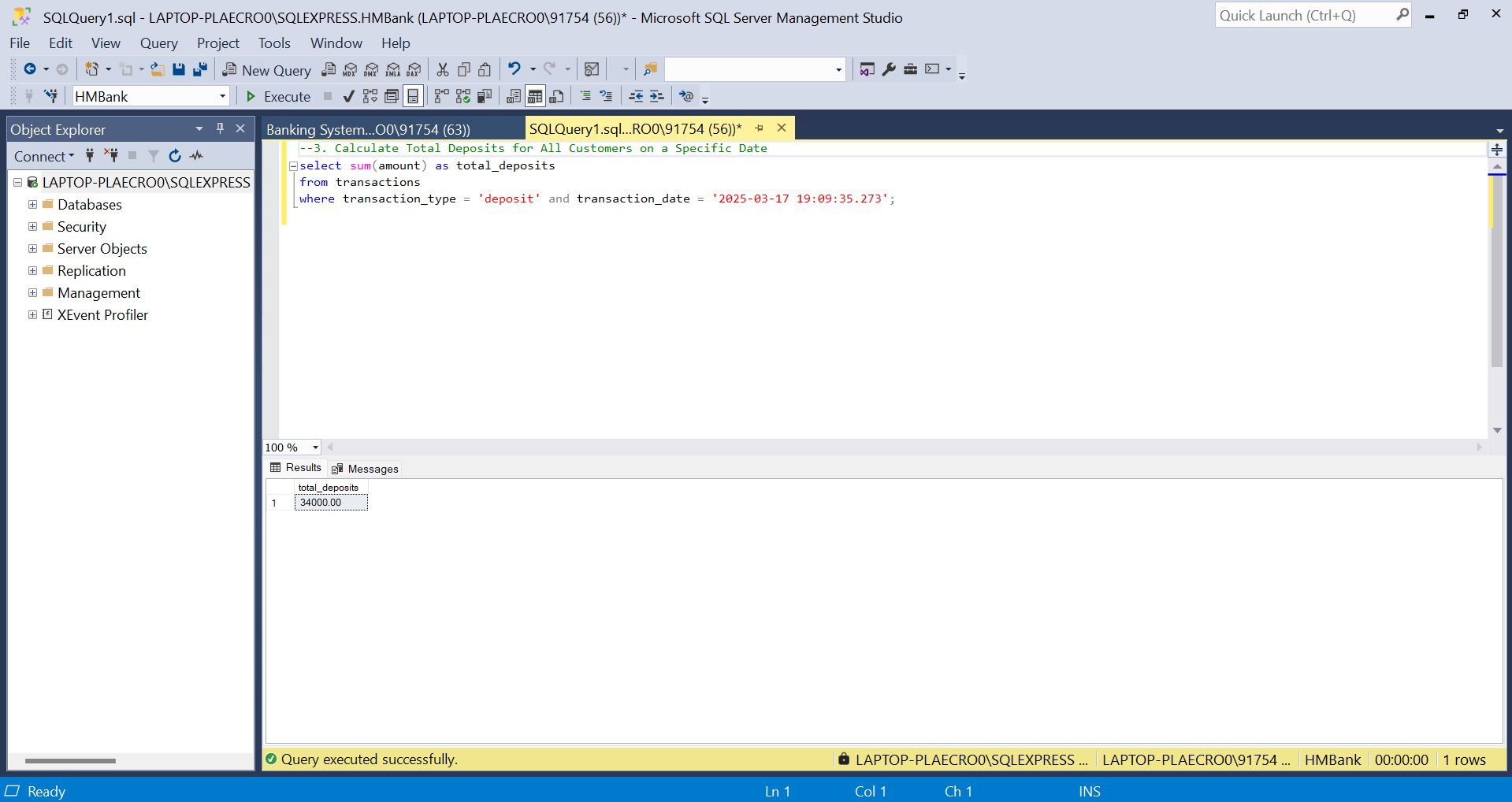
Q1. Find the Average Account Balance for All Customers



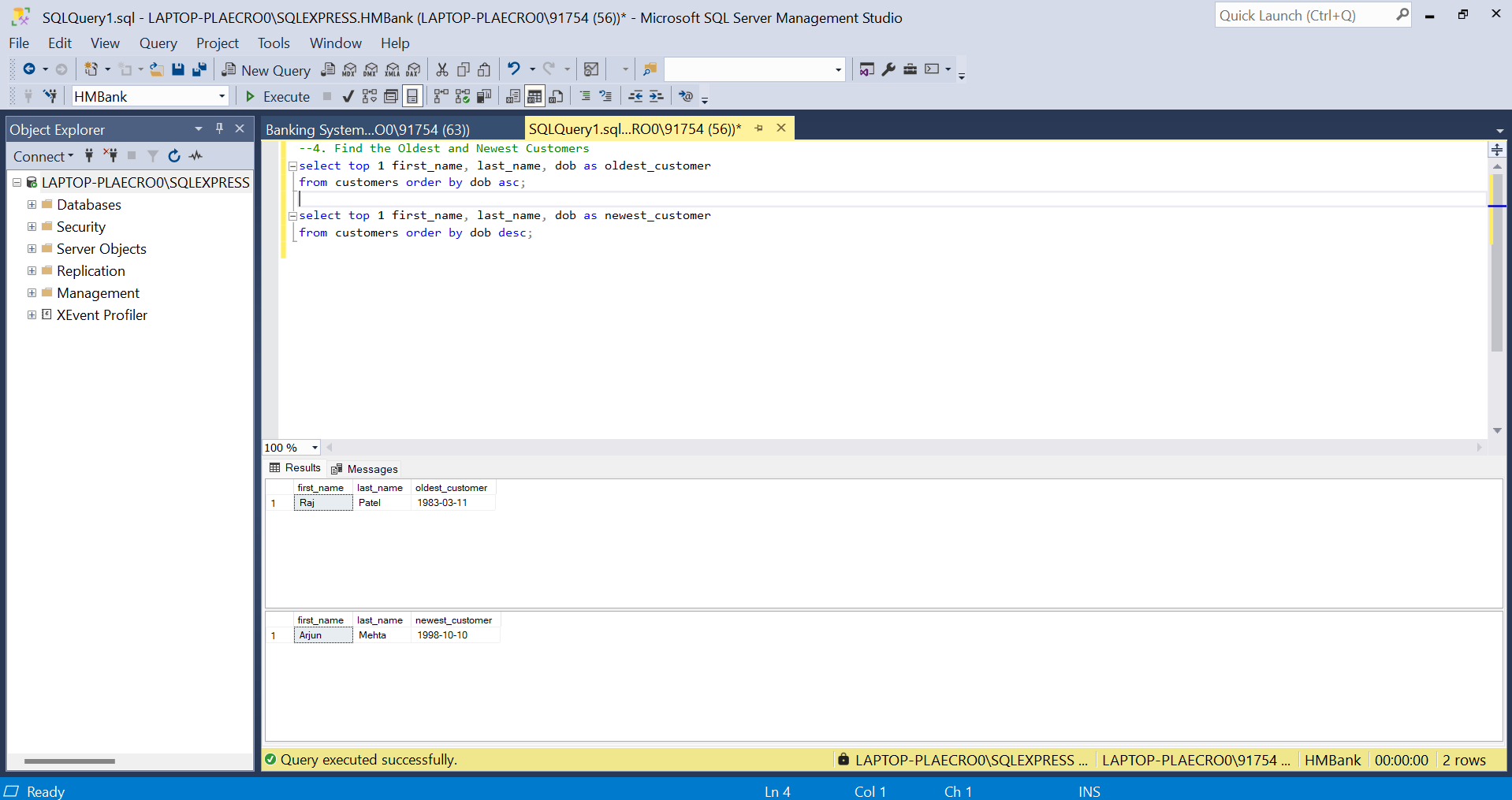
Q2. Retrieve the Top 10 Highest Account Balances



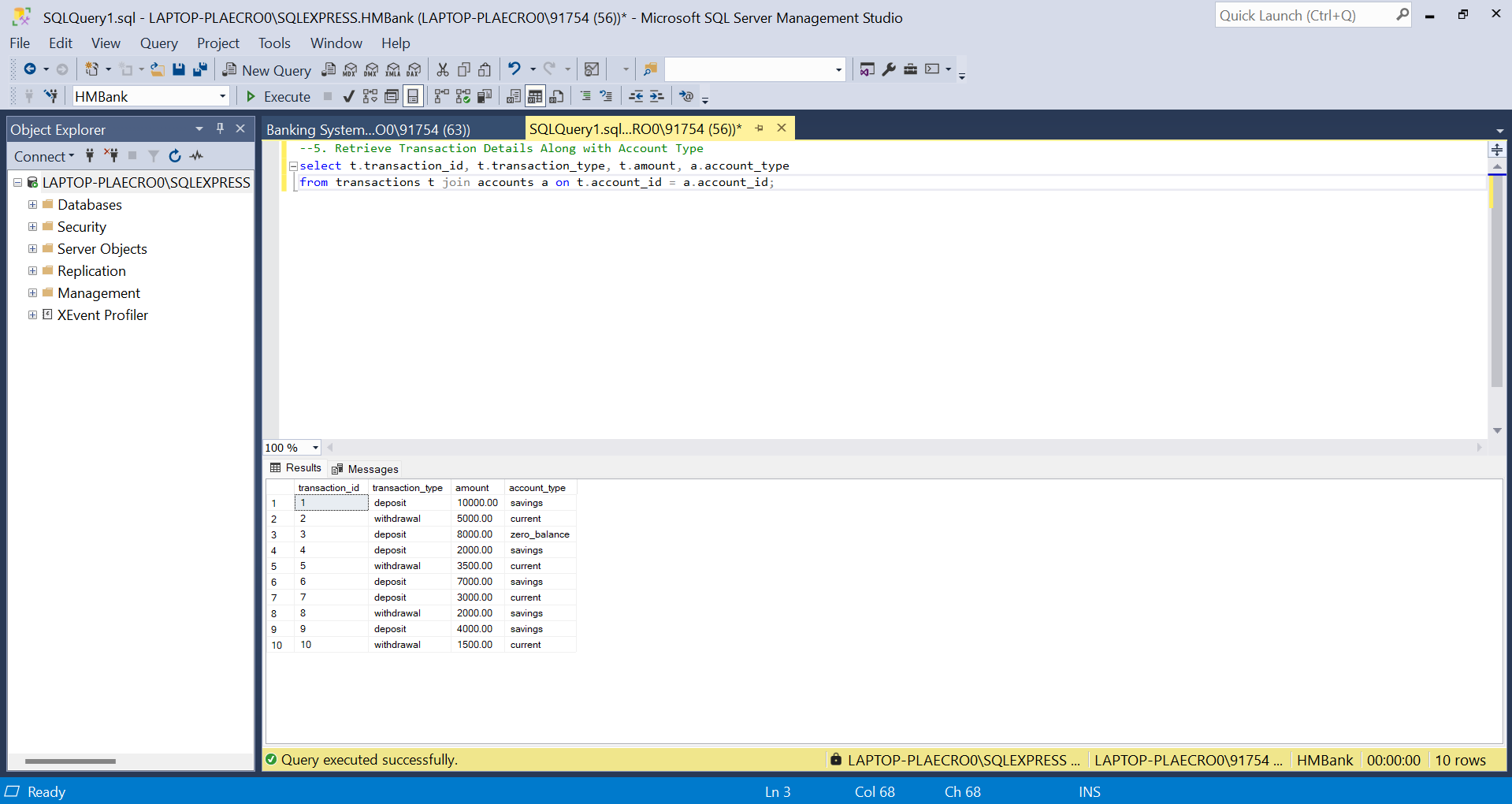
Q3. Calculate Total Deposits for All Customers on a Specific Date



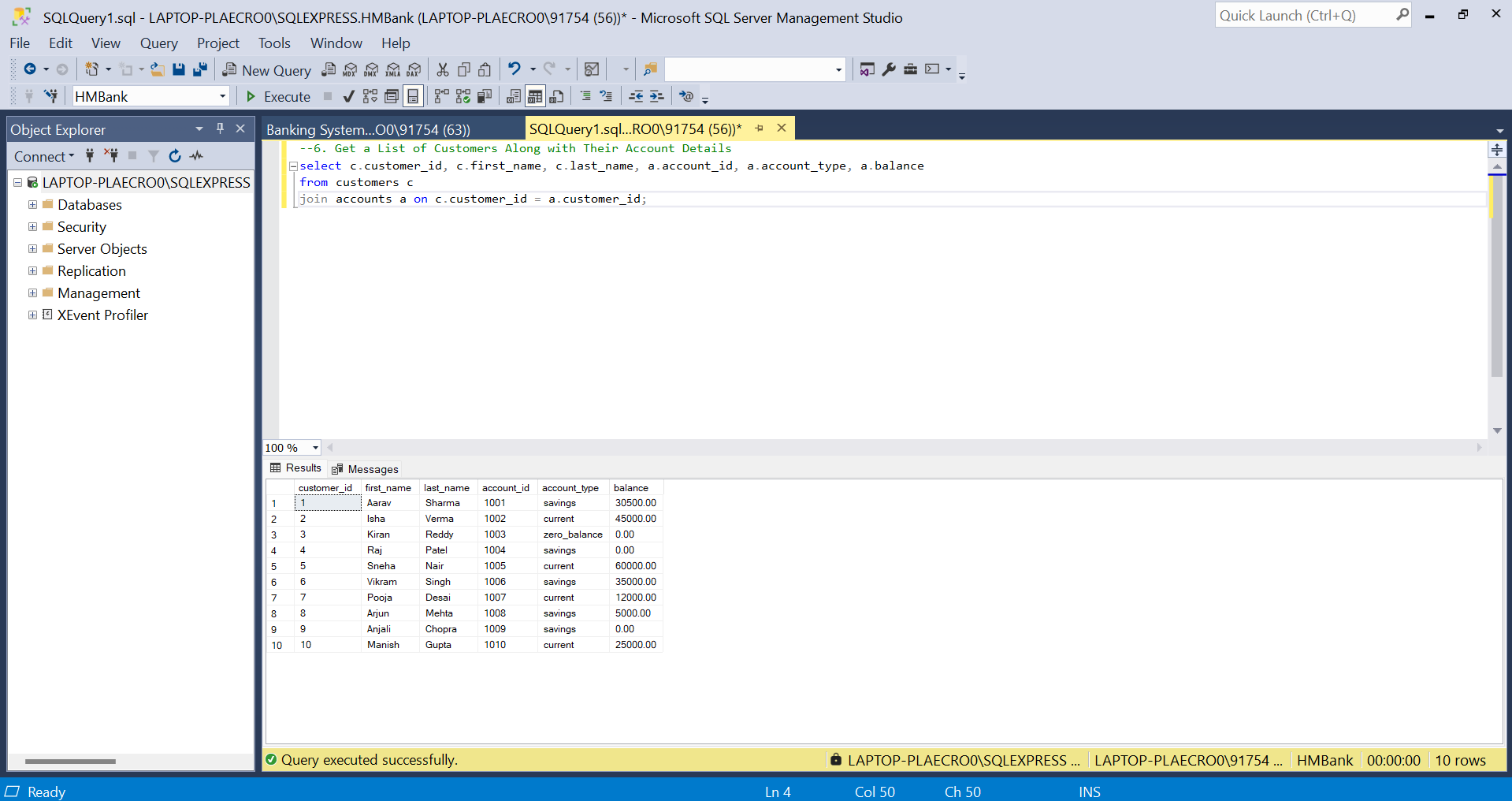
Q4. Find the Oldest and Newest Customers



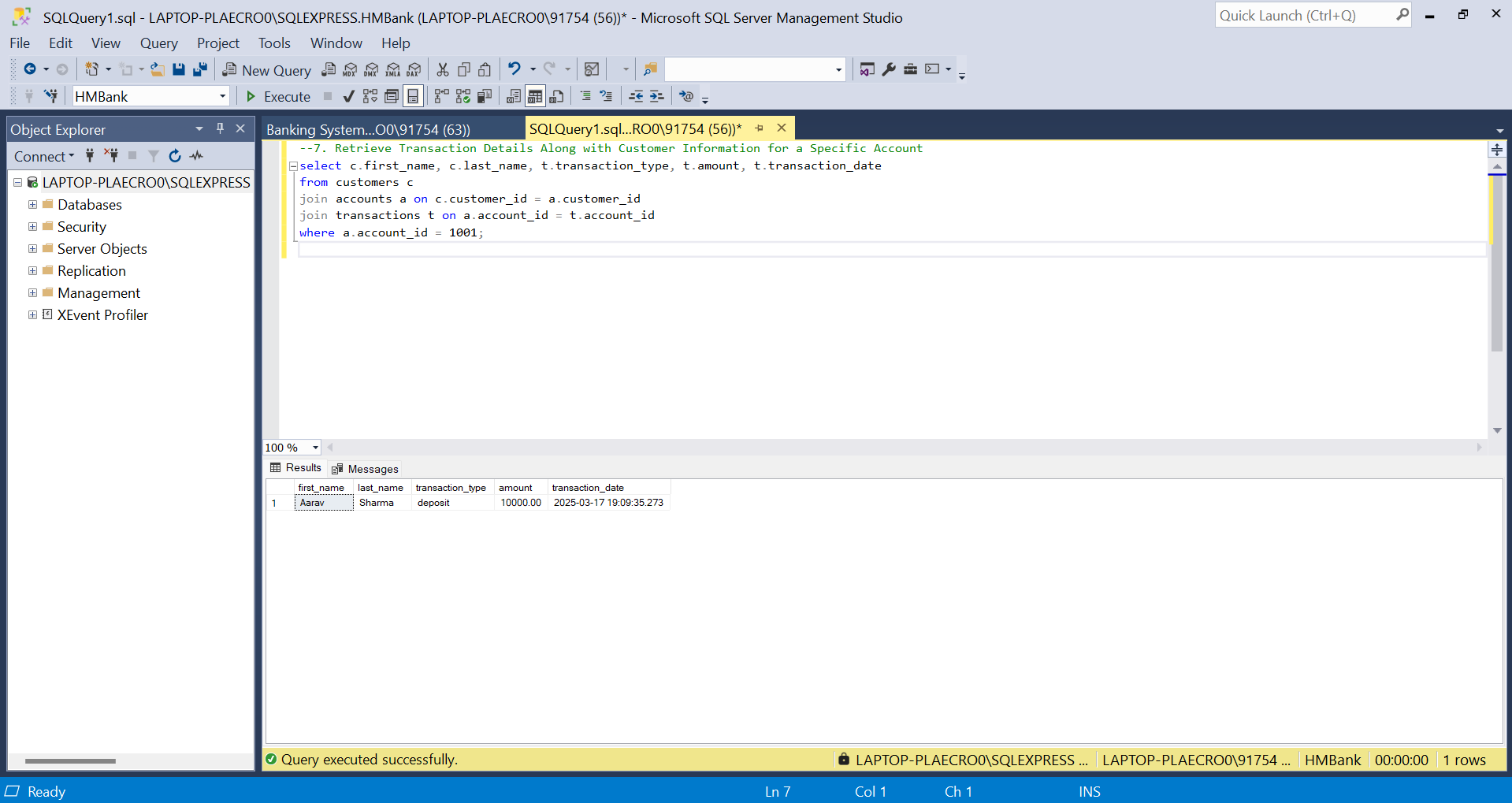
Q5. Retrieve Transaction Details Along with Account Type



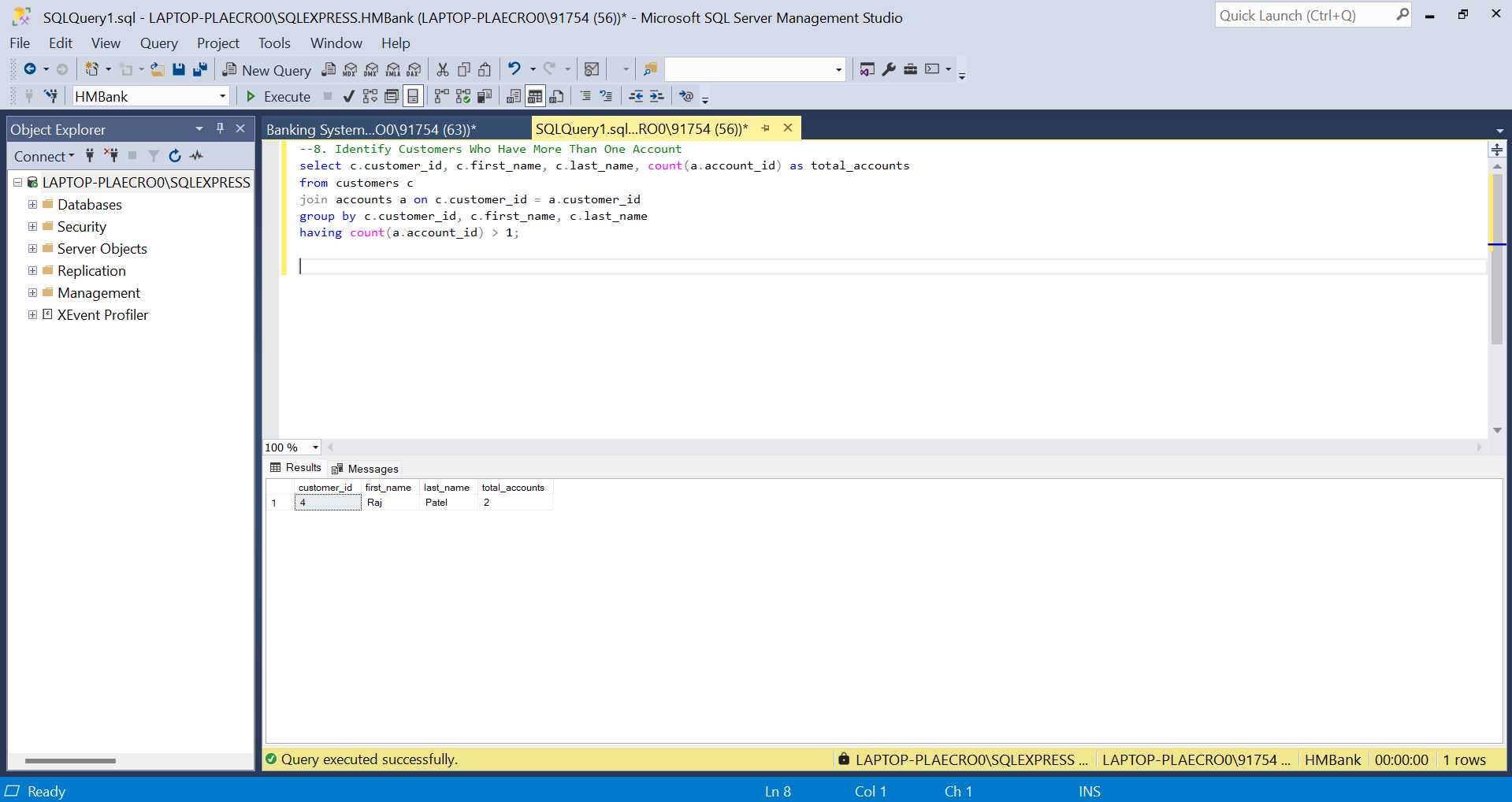
Q6. Get a List of Customers Along with Their Account Details



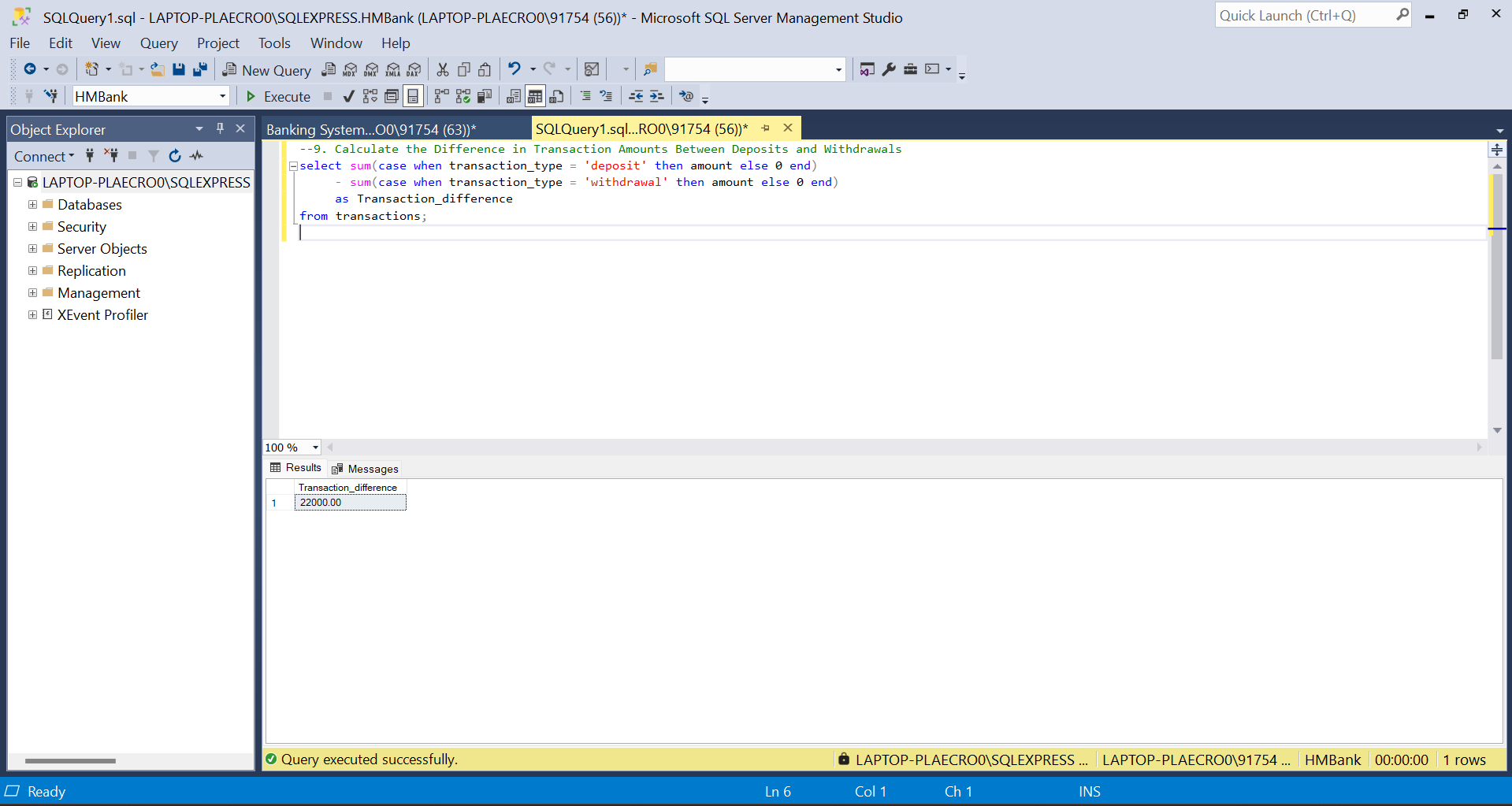
Q7. Retrieve Transaction Details Along with Customer Information for a Specific Account



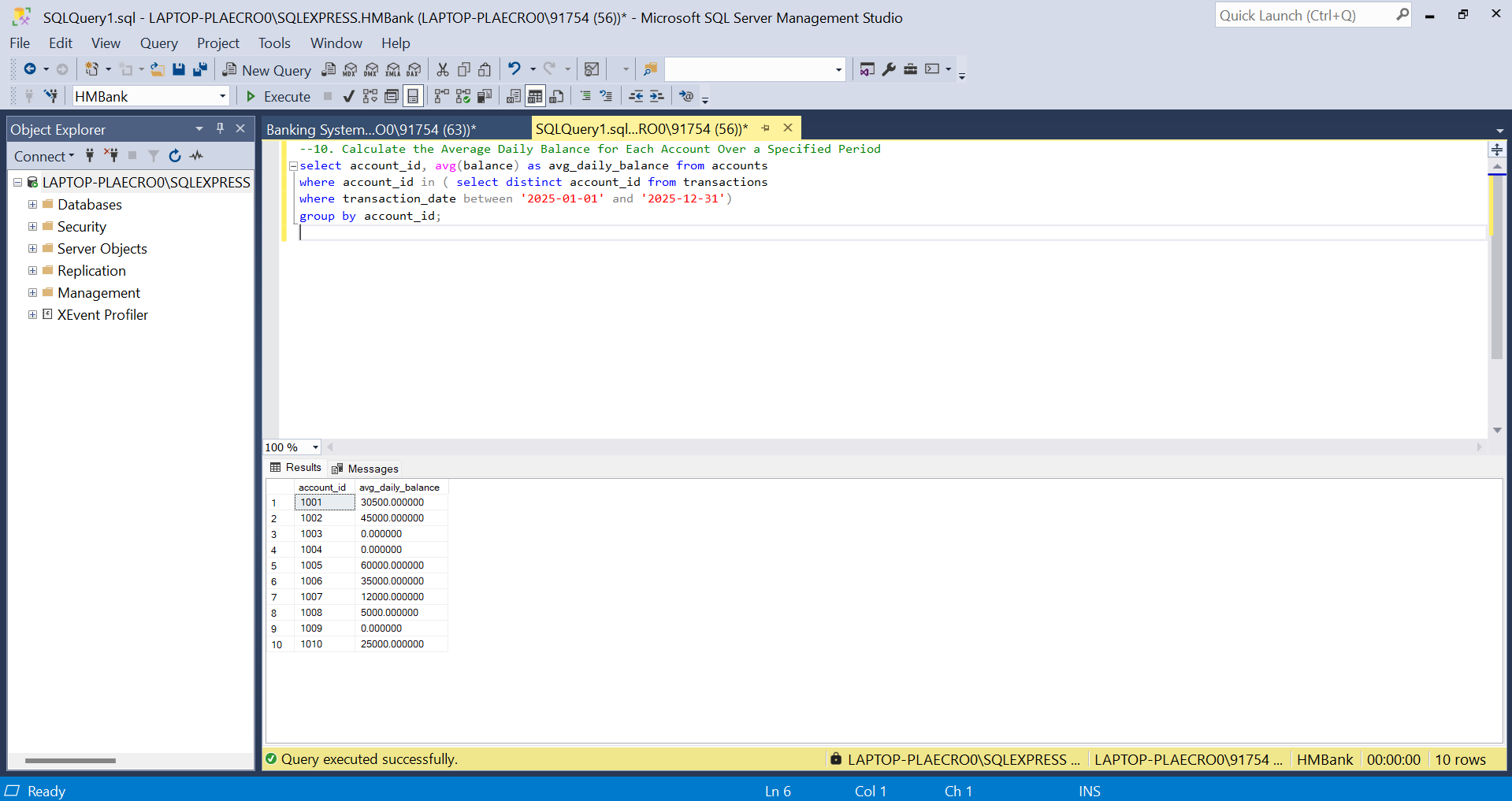
Q8. Identify Customers Who Have More Than One Account



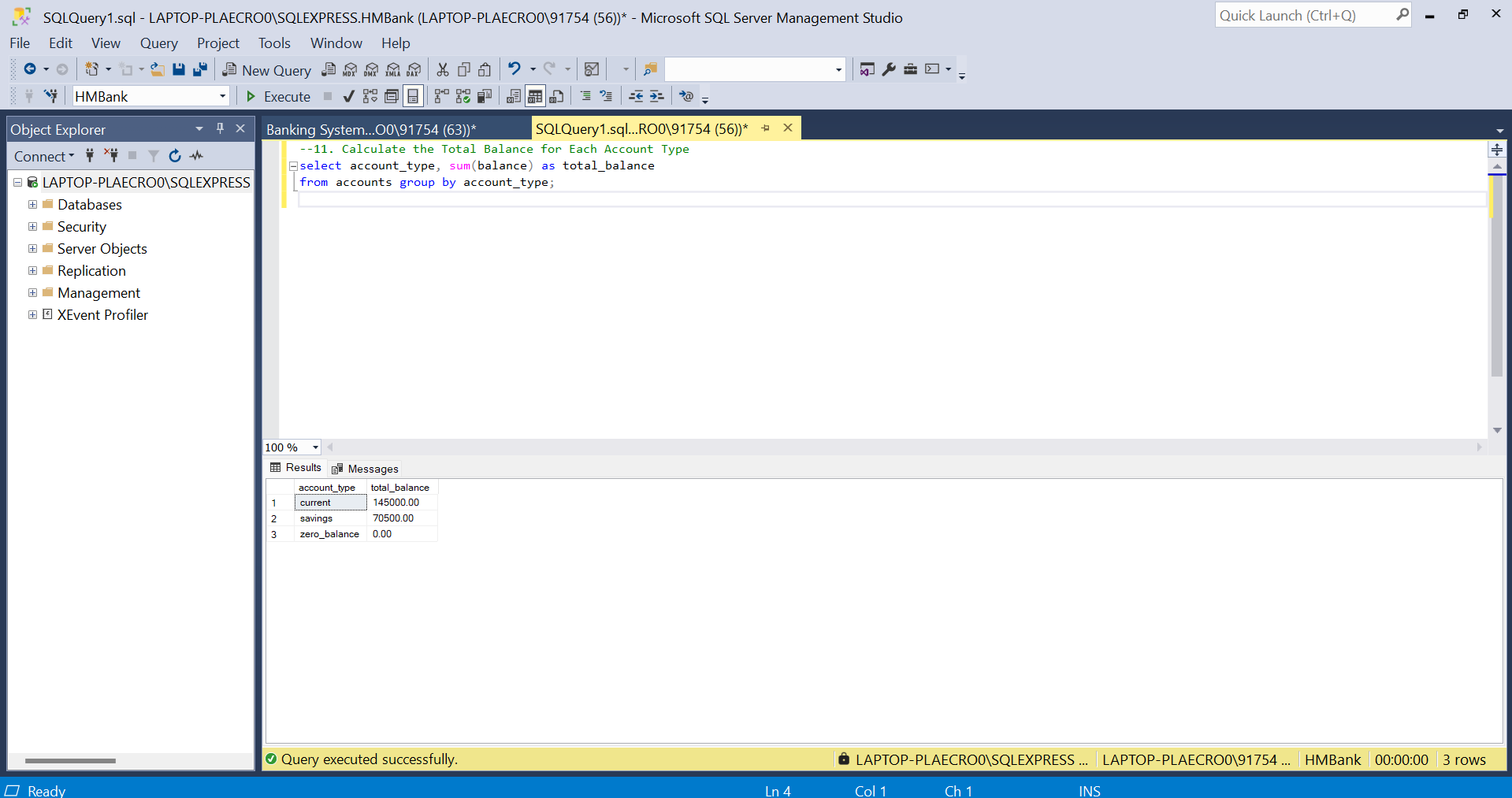
Q9. Calculate the Difference in Transaction Amounts Between Deposits and Withdrawals



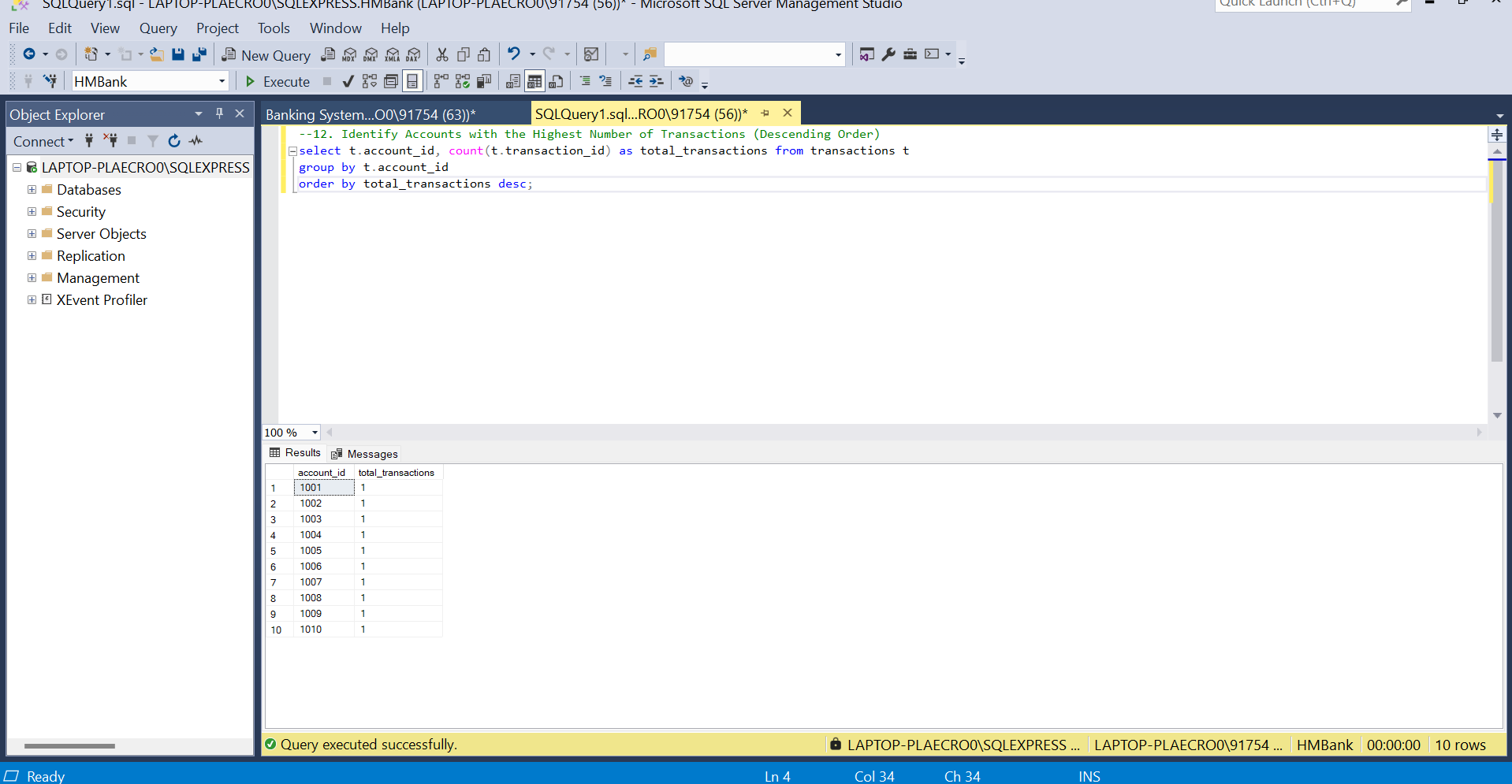
Q10. Calculate the Average Daily Balance for Each Account Over a Specified Period



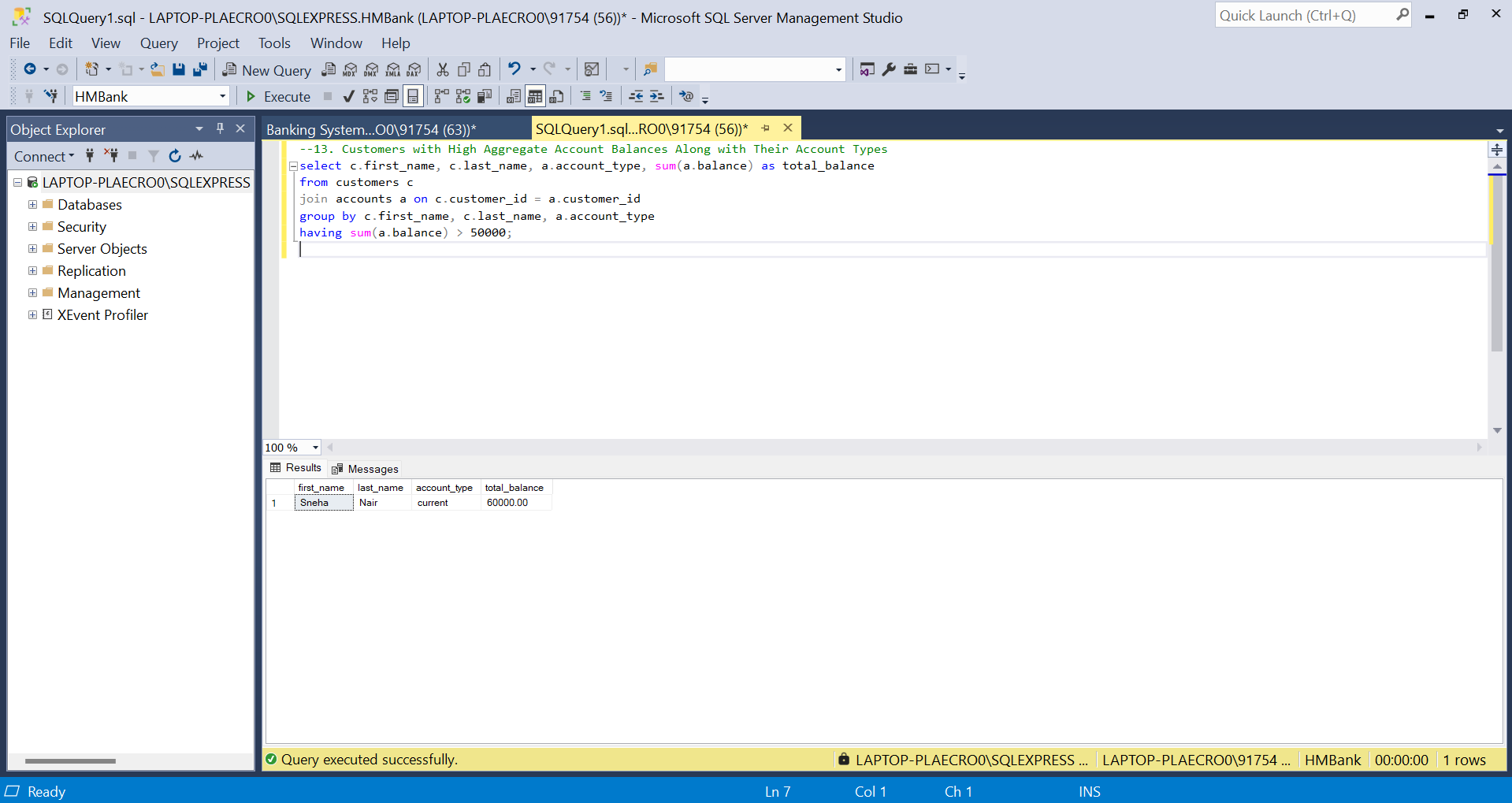
Q11. Calculate the Total Balance for Each Account Type



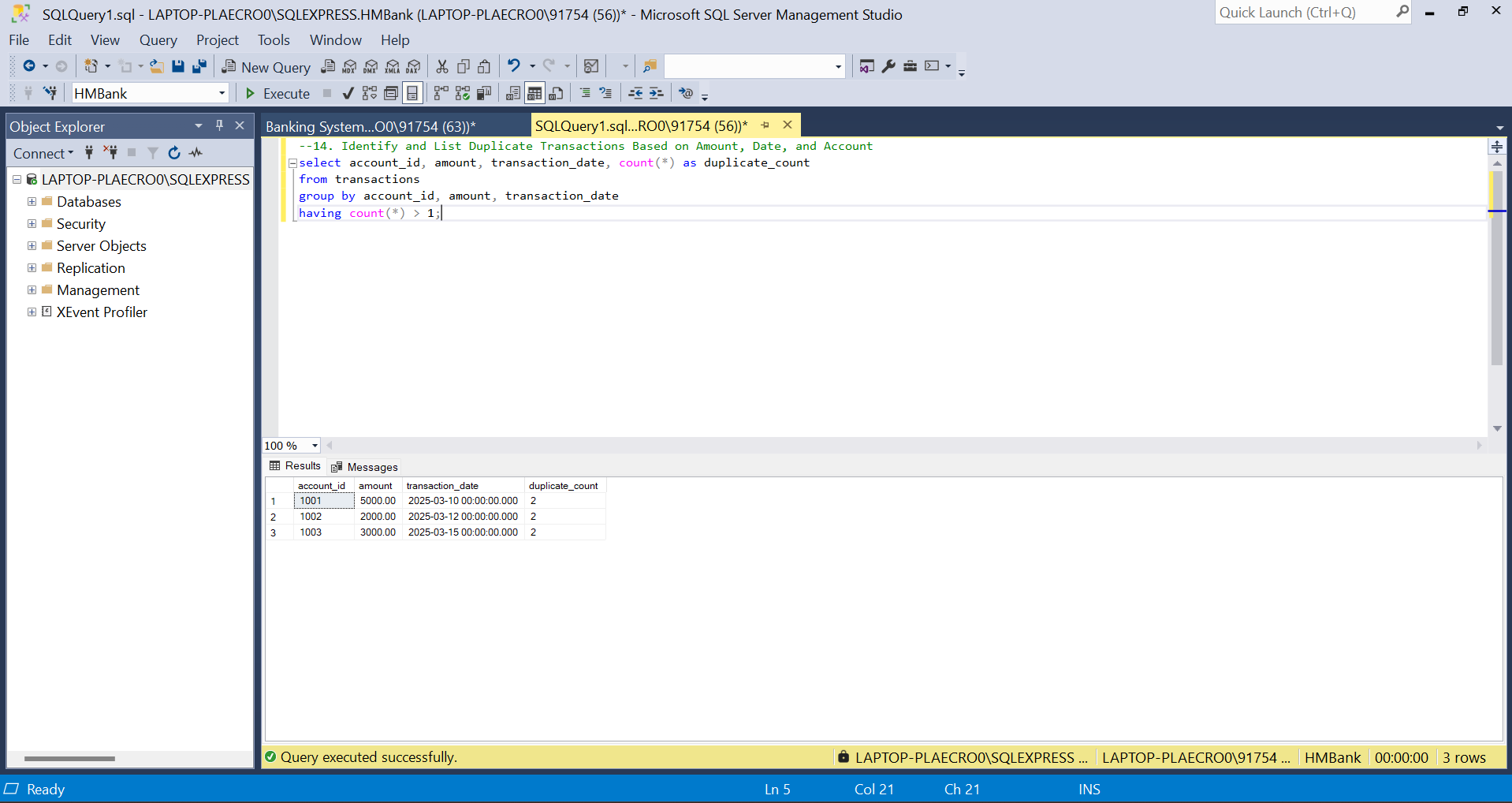
Q12. Identify Accounts with the Highest Number of Transactions (Descending Order)



Q13. Customers with High Aggregate Account Balances Along with Their Account Types

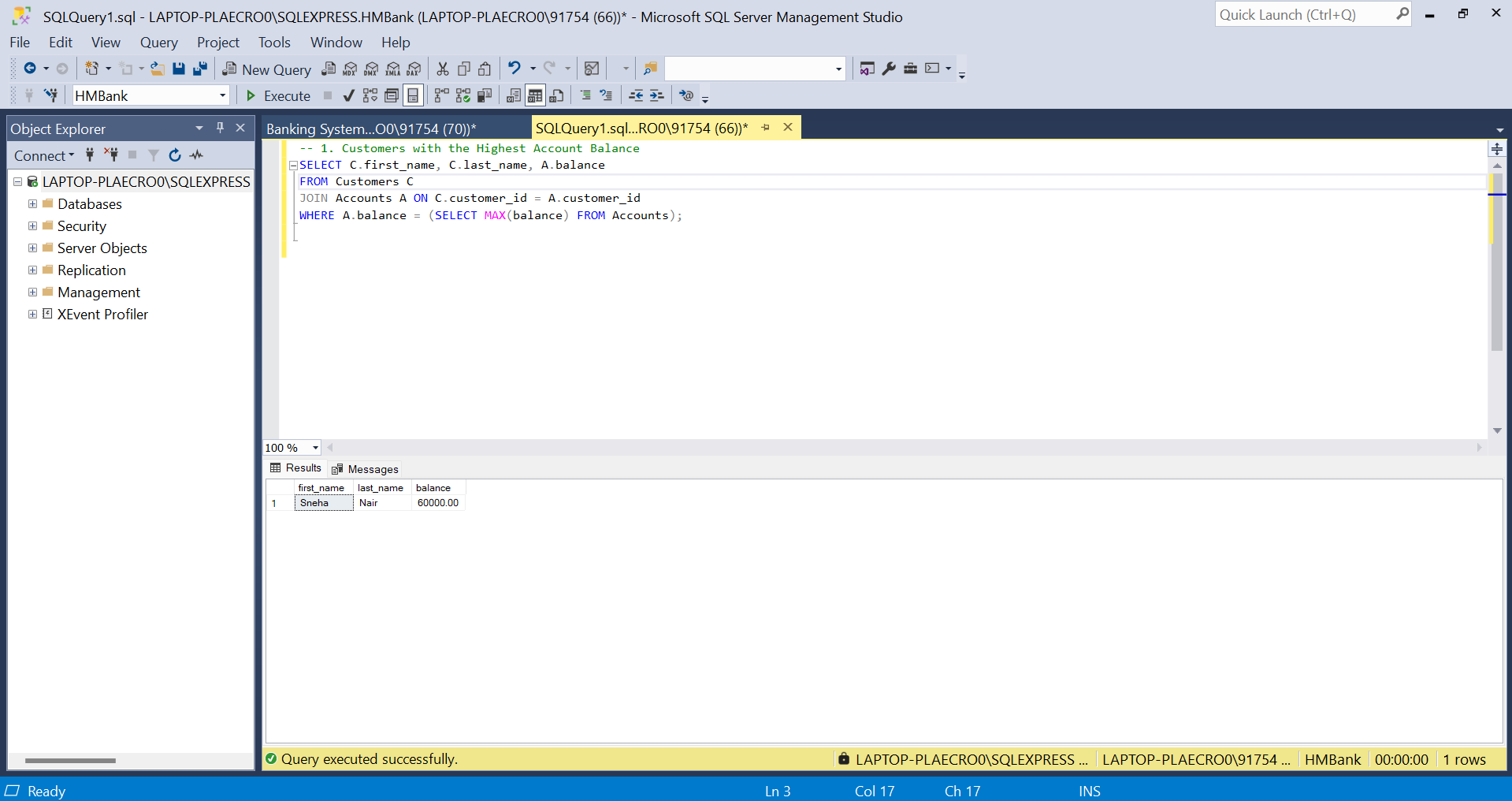


Q14. Identify and List Duplicate Transactions Based on Amount, Date, and Account

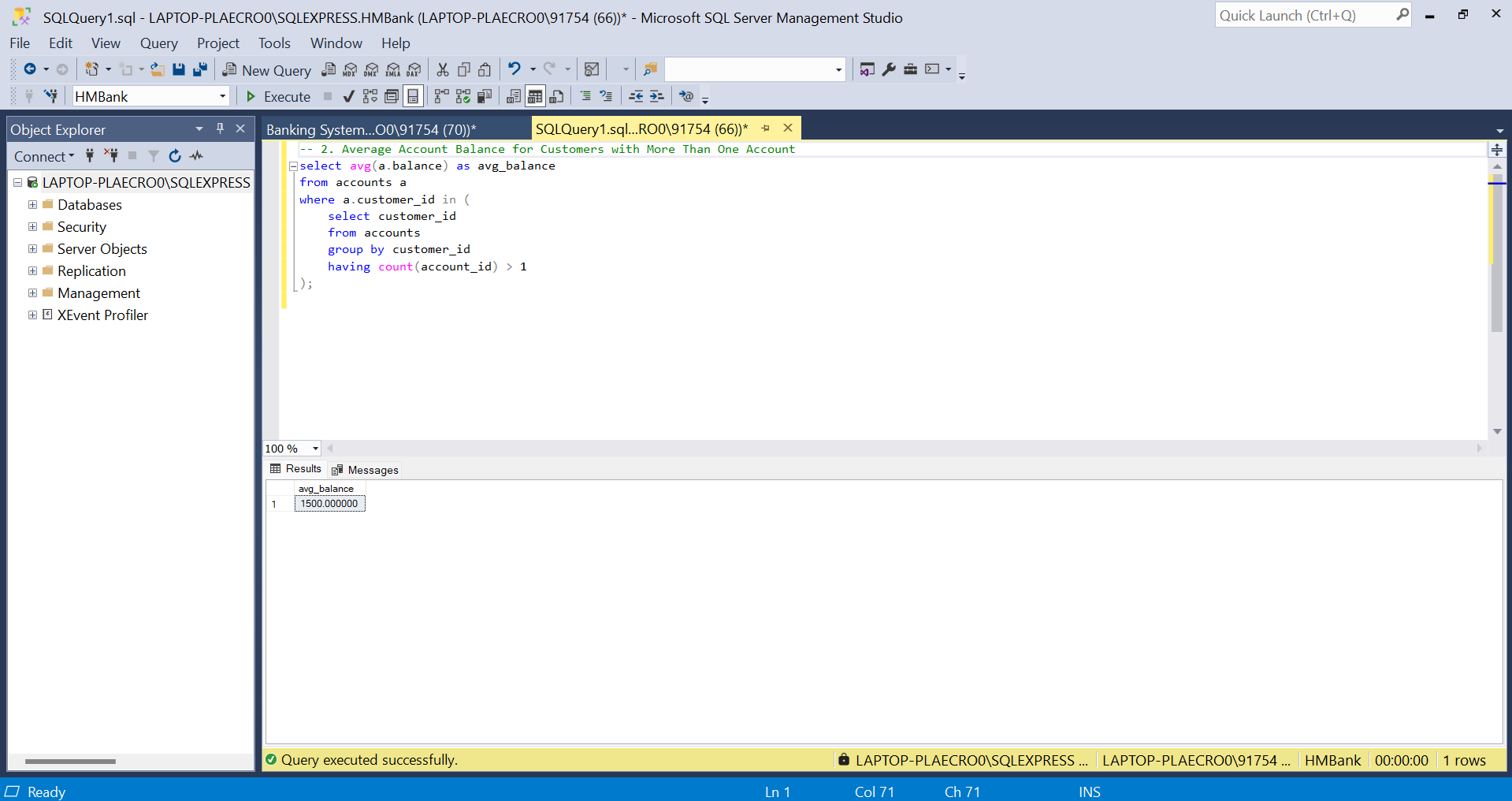


Tasks 4: Subquery and its type

Q1. Customers with the Highest Account Balance



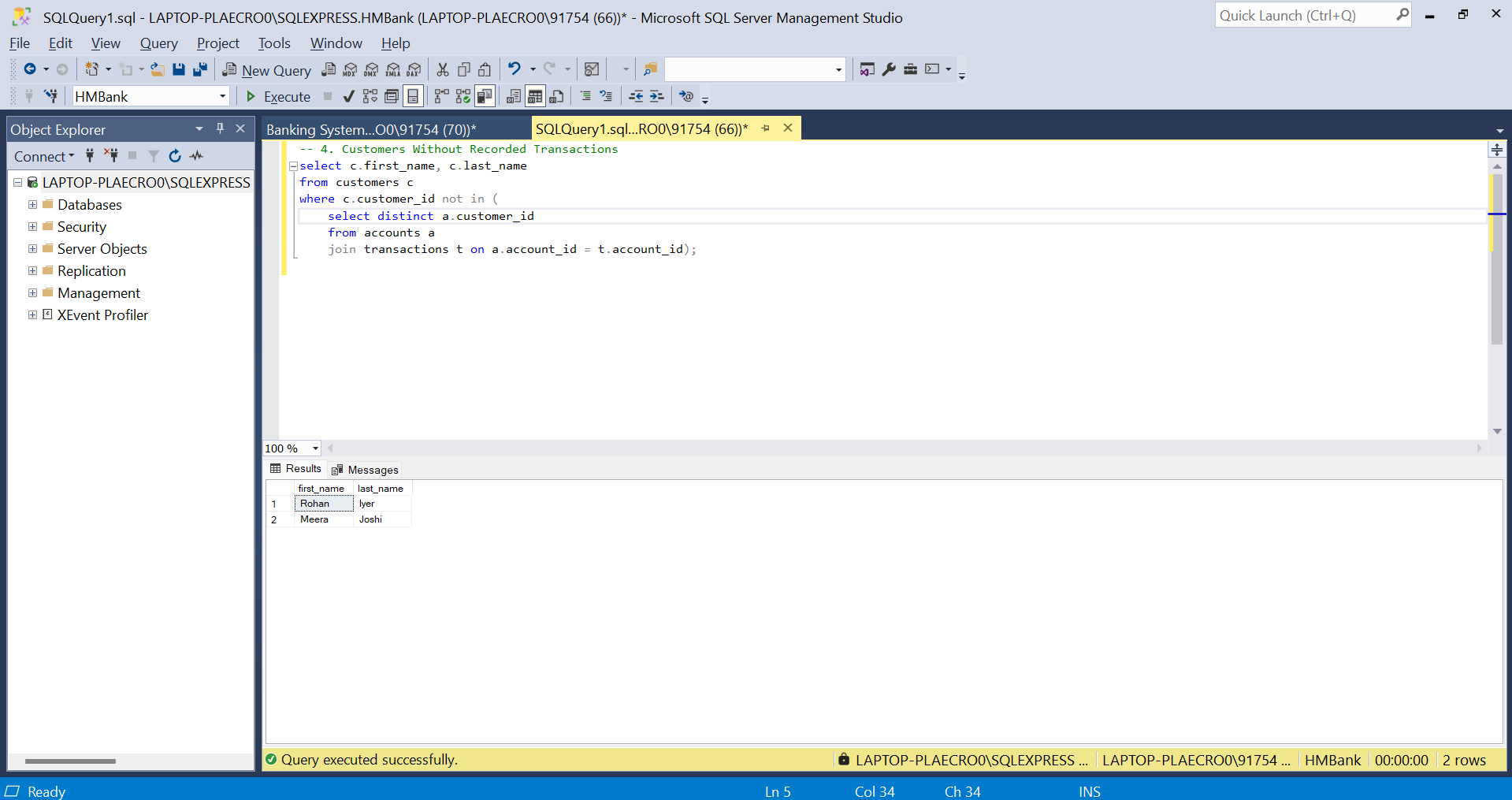
Q2. Average Account Balance for Customers with More Than One Account



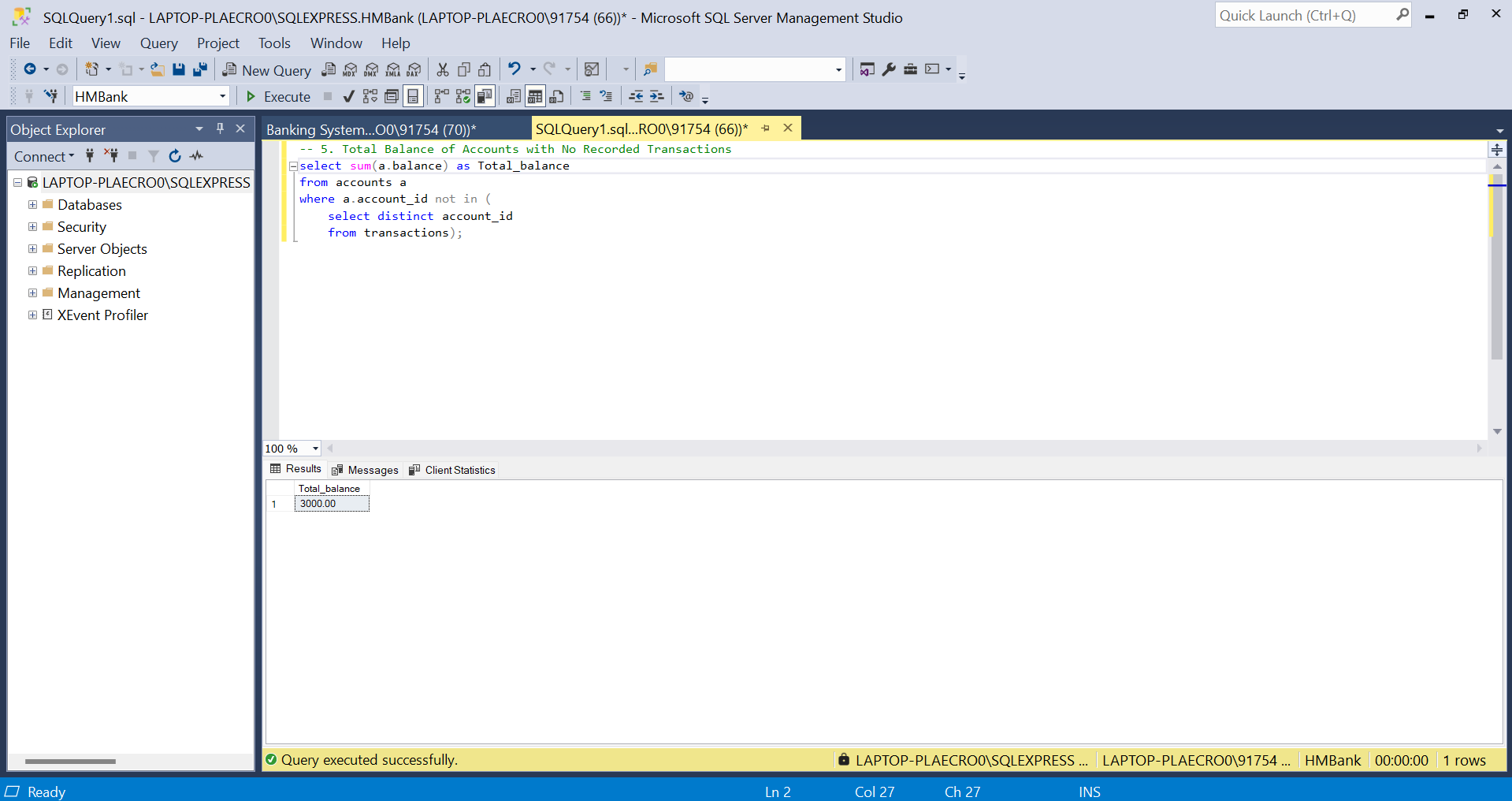
Q3. Accounts with Transactions Exceeding Average Transaction Amount



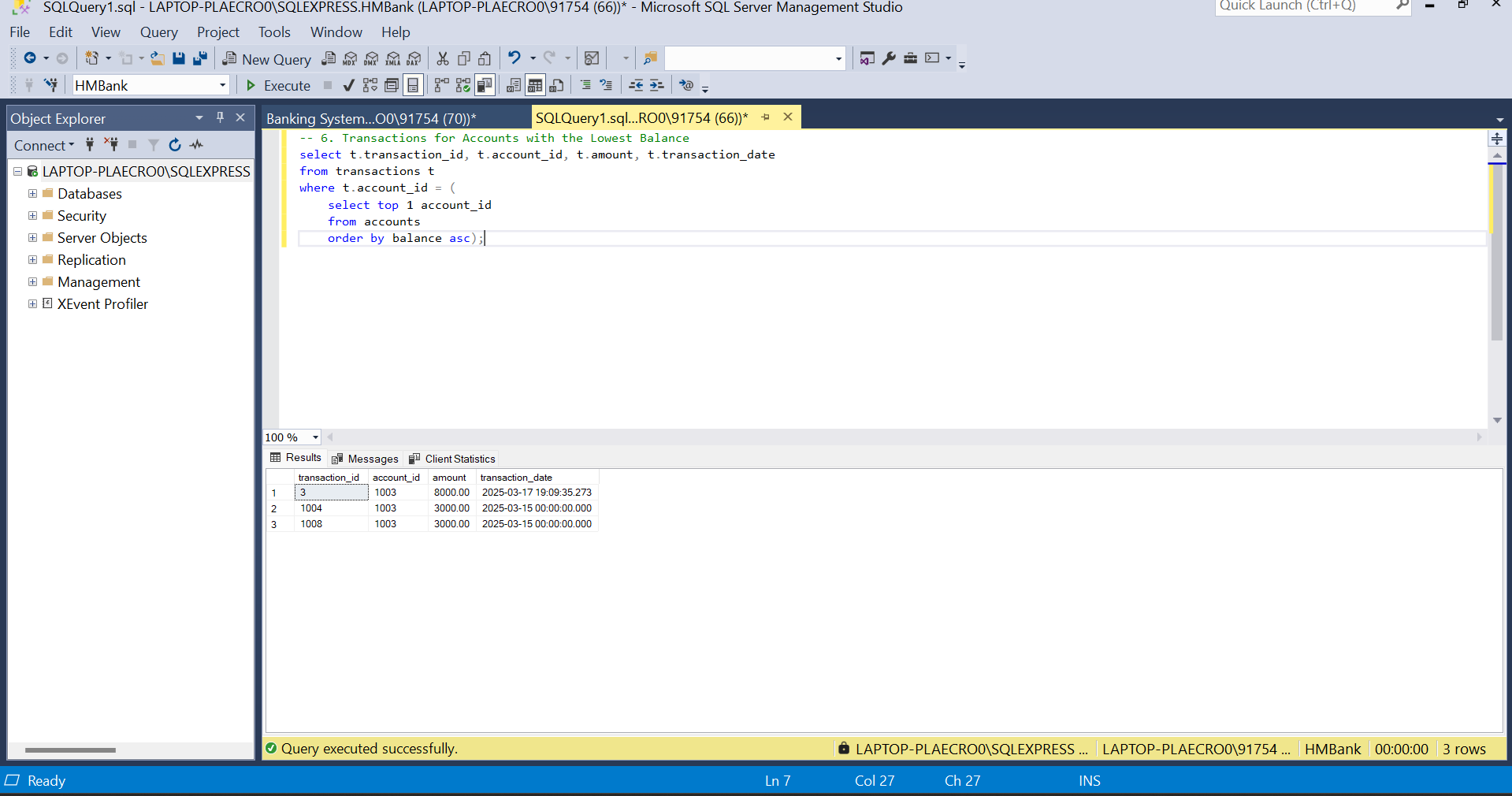
Q4. Customers Without Recorded Transactions



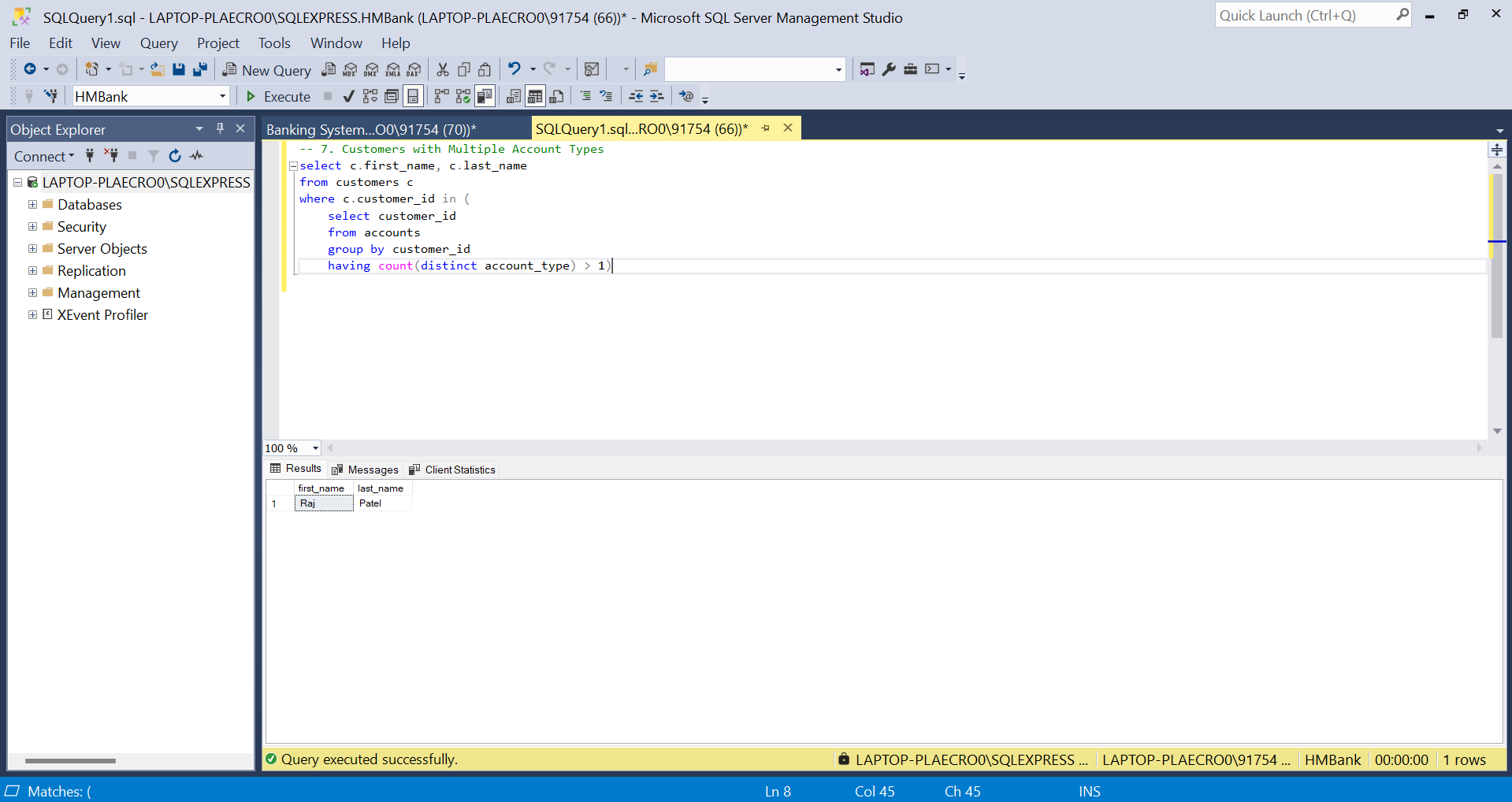
Q5. Total Balance of Accounts with No Recorded Transactions



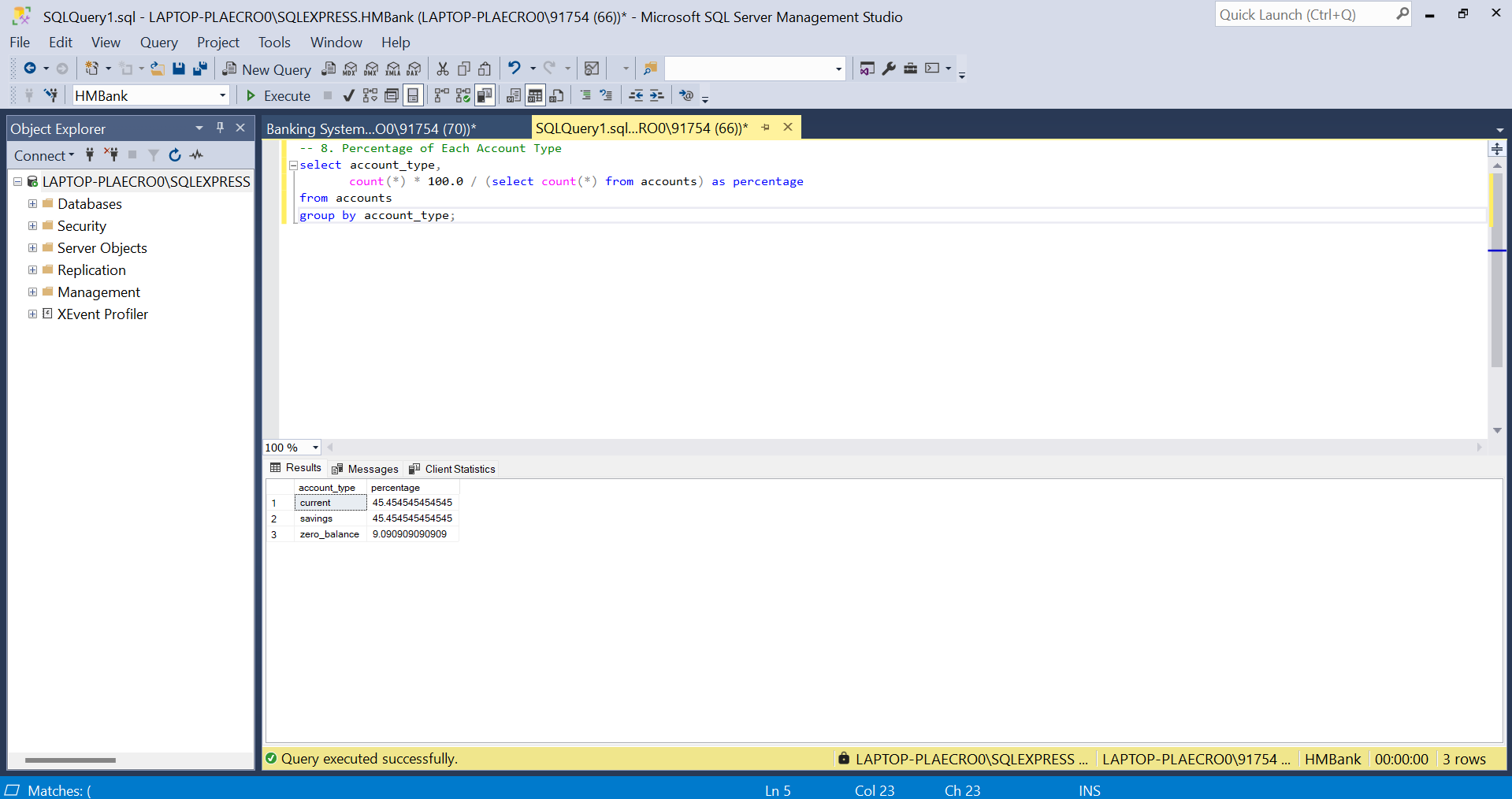
Q6. Transactions for Accounts with the Lowest Balance



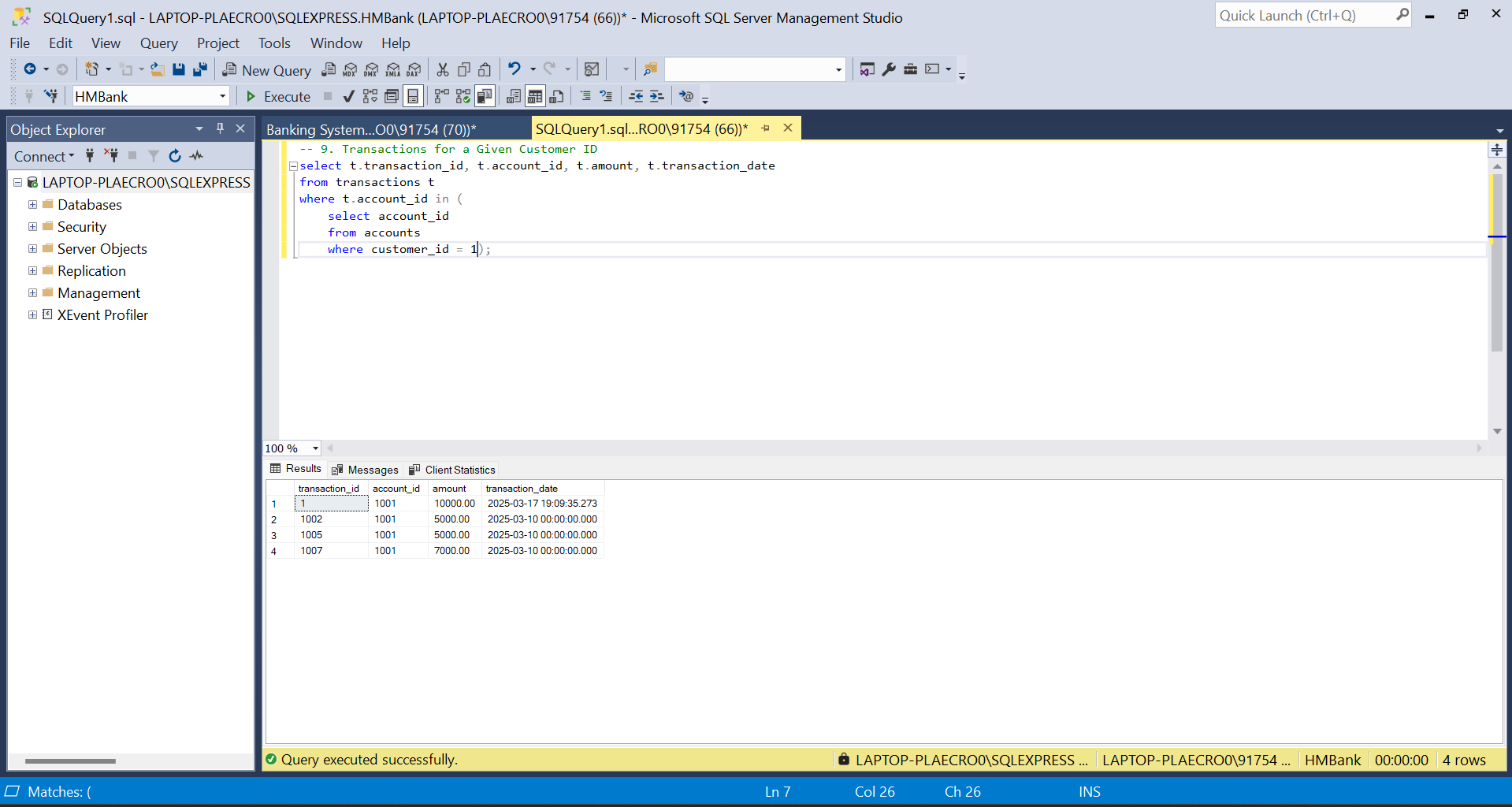
Q7. Customers with Multiple Account Types



Q8. Percentage of Each Account Type



Q9. Transactions for a Given Customer ID



Q10. Total Balance for Each Account Type

