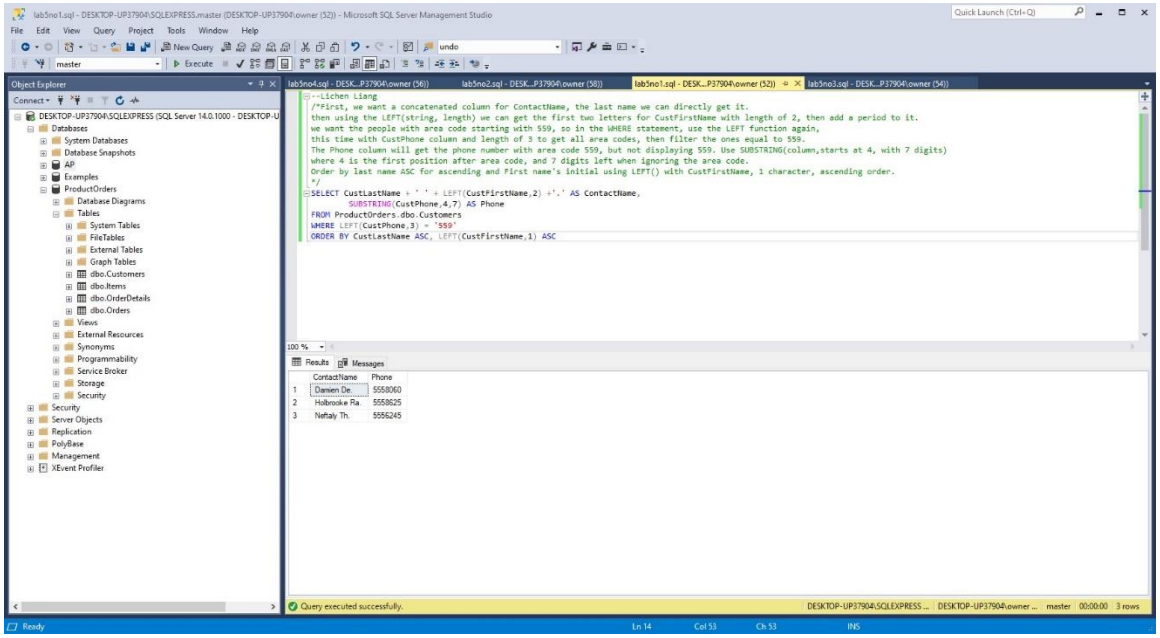
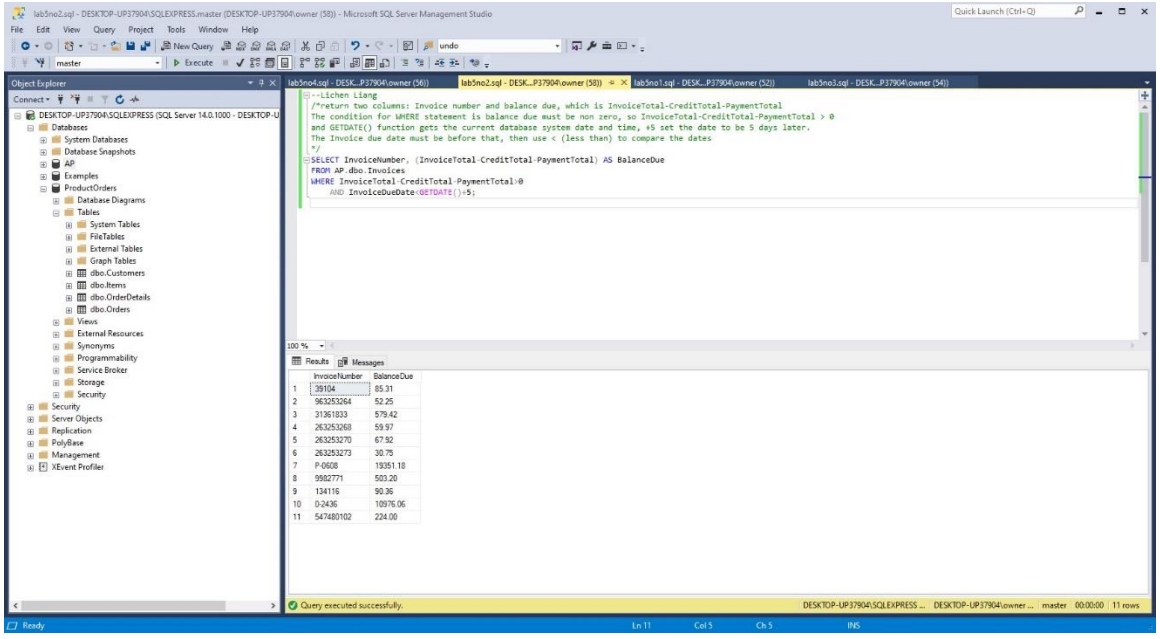
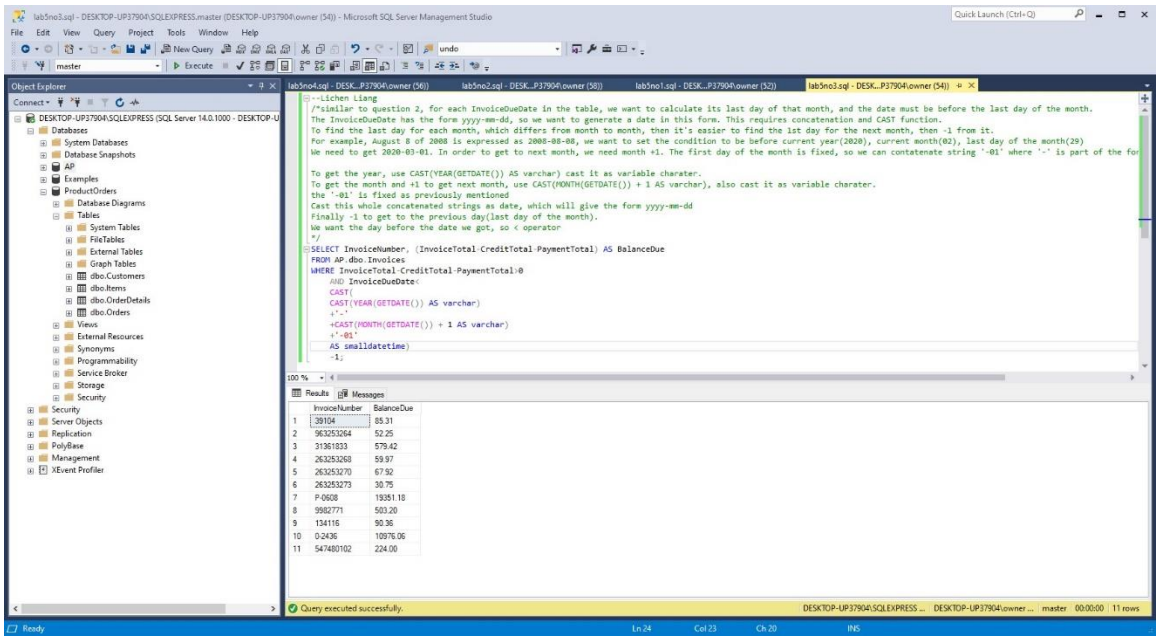
1. SELECT CustLastName + ' ' + LEFT(CustFirstName,2) +'.' AS ContactName,
   SUBSTRING(CustPhone,4,7) AS Phone
   FROM ProductOrders.dbo.Customers
   WHERE LEFT(CustPhone,3) = '559'
   ORDER BY CustLastName ASC, LEFT(CustFirstName,1) ASC



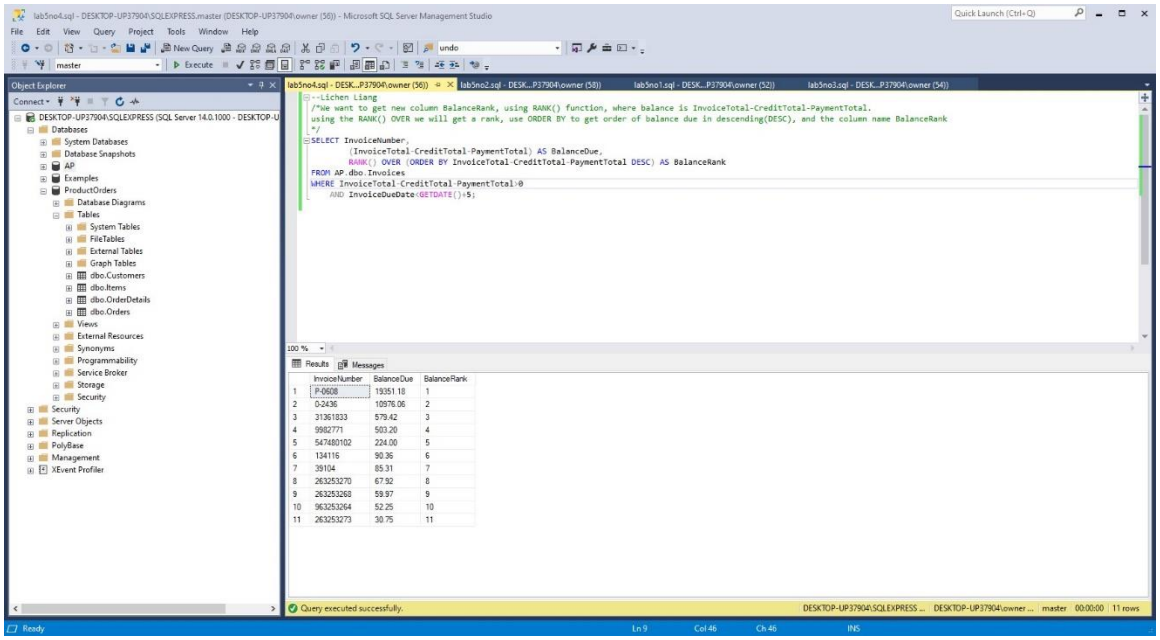
2. SELECT InvoiceNumber, (InvoiceTotal-CreditTotal-PaymentTotal) AS BalanceDue
   FROM AP.dbo.Invoices
   WHERE InvoiceTotal-CreditTotal-PaymentTotal>0
   AND InvoiceDueDate<GETDATE()+5;



3. SELECT InvoiceNumber, (InvoiceTotal-CreditTotal-PaymentTotal) AS BalanceDue
   FROM AP.dbo.Invoices
   WHERE InvoiceTotal-CreditTotal-PaymentTotal>0
   AND InvoiceDueDate<
   CAST(
   CAST(YEAR(GETDATE()) AS varchar)
   +'-'
   +CAST(MONTH(GETDATE()) + 1 AS varchar)
   +'-01'
   AS smalldatetime)
   -1;



4. SELECT InvoiceNumber,
   (InvoiceTotal-CreditTotal-PaymentTotal) AS BalanceDue,
   RANK() OVER (ORDER BY InvoiceTotal-CreditTotal-PaymentTotal DESC) AS BalanceRank
   FROM AP.dbo.Invoices
   WHERE InvoiceTotal-CreditTotal-PaymentTotal>0
   AND InvoiceDueDate<GETDATE()+5;



Remarks

In this lab we further practiced using functions, such as date/time, string, ranking, etc. Since there are so many functions there is no way to practice them all in one lab, I think question 3 is a very good practice in general. This lab is very efficient practice for lecture. The challenge would be more complicated and specific requirements that need more functions.