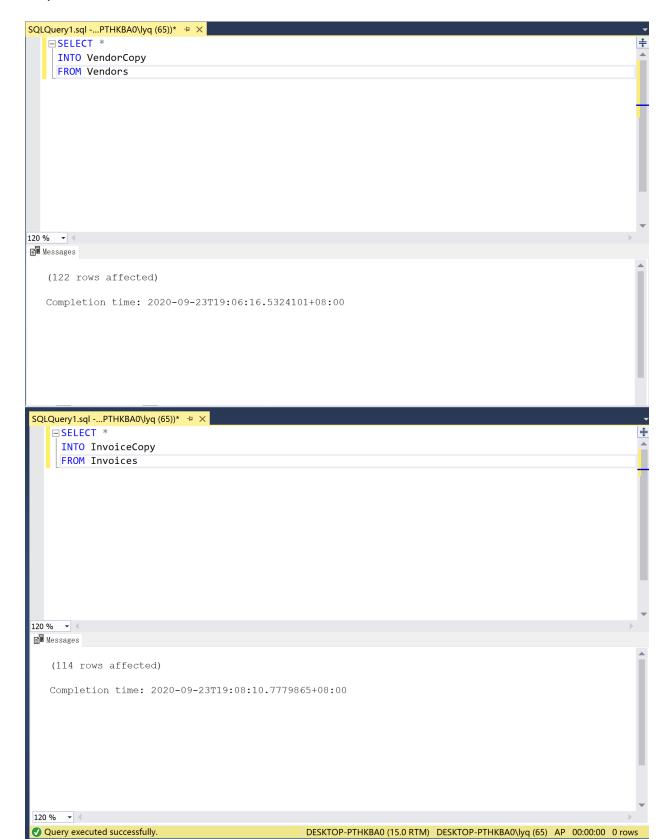
Lab 4: Data manipulation, Data types

1. Create VendorCopy table and InvoiceCopy table.

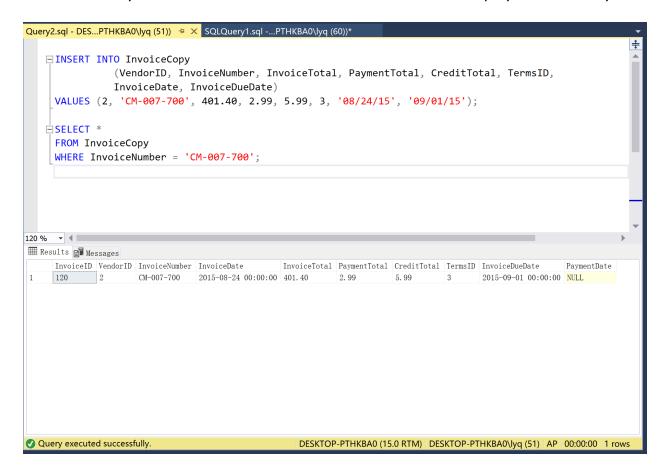
As you can see as below, the two table are created.



2. Write an INSERT statement that adds a row to the InvoiceCopy table with the following values (USE SELECT statement to verify data changes in the table before and after the modification):

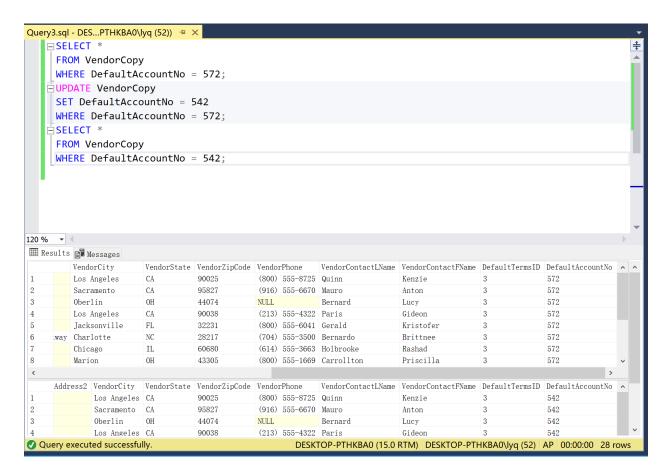
The screenshot is as below:

And we actually do not need insert InvoiceID because it would display automatically.



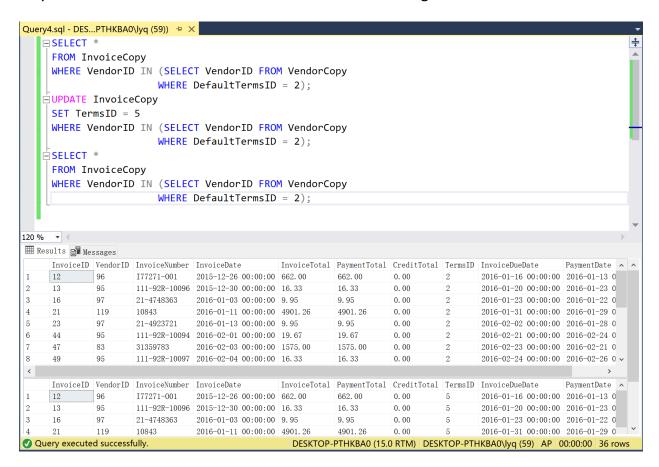
3. Write an UPDATE statement that modifies the VendorCopy table. Change the default account number to 542 for each vendor that has a default account number of 572. (USE SELECT statement to verify data changes in the table before and after the modification).

The screenshot is as below and the default account number have changed from 572 to 542.



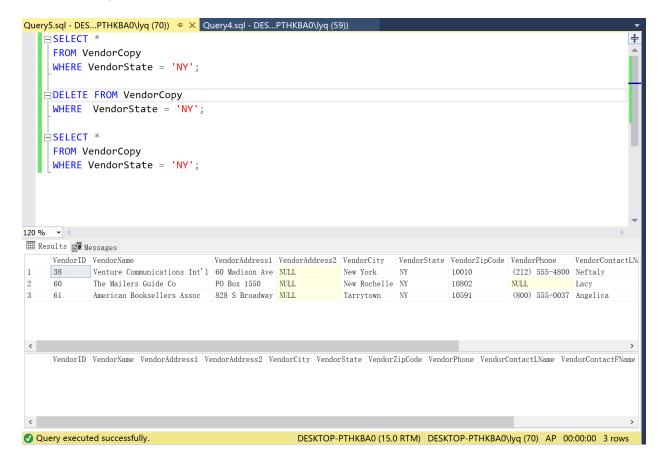
4. Write an UPDATE statement that modifies the InvoiceCopy table. Change the TermsID to 5 for each invoice that's from a vendor with a defaultTermsID of 2. Use a subquery. (USE SELECT statement to verify data changes in the table before and after the modification).

As you can see in the screenshot the 'TermsID' have changed to 5.



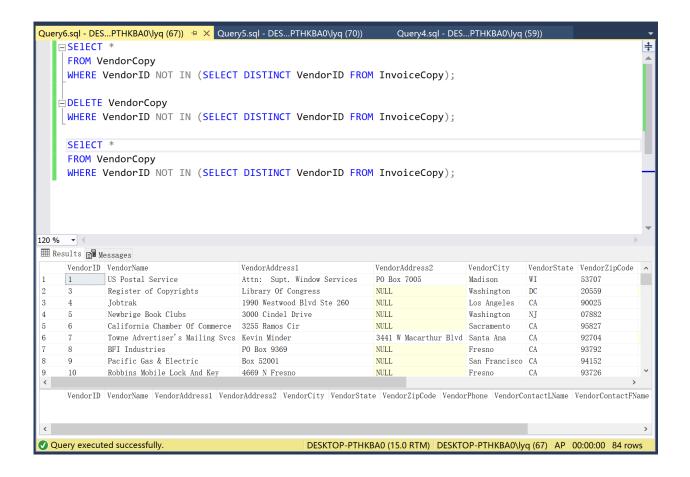
5. Write a DELETE statement that deletes all vendors in the state of 'New York' from the VendorCopy table. (USE SELECT statement to verify data changes in the table before and after the modification).

As you can see, the vendors in the state of New York have been delete and could not be searched any more.



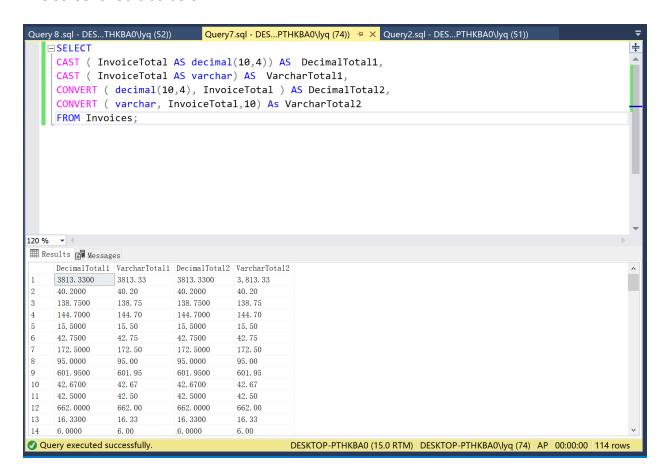
6. Write a DELETE statement for the VendorCopy table. Delete the vendors that are located in cities from which no vendor has ever sent an invoice. (USE SELECT statement to verify data changes in the table before and after the modification).

As you can see in the screenshot, the vendors that located in the cities from which no vendor has ever sent an invoice have been deleted.



- 7. Write a SELECT statement that returns four columns based on the InvoiceTotal column of the Invoices table:
- 1) Use CAST function to return the first column as data type decimal with 4 digits to the right of the decimal point.
- 2) Use CAST to return the second column as a VARCHAR.
- 3) Use CONVERT function to return third column as the same type as the first column.
- 4) Use CONVERT to return the fourth column as a VARCHAR, using style 10.

The screenshot is as below.



- 8. Write a SELECT statement that returns four columns based on the InvoiceDate column of the Invoices table:
- 1) Use the CAST function to return the first column as data type VARCHAR.
- 2) Use the CONVERT function to return the second and third columns as a VARCHAR, using style 5 and style 9, respectively.
- 3) Use the CAST function to return the fourth column as a data type real.

The screenshot is as below:

