# Overview

To familiarize developers with manipulating SQL table data.

# Resources

* [Writing T-SQL Statements](https://docs.microsoft.com/en-us/sql/t-sql/tutorial-writing-transact-sql-statements?view=sql-server-ver15)
* [Queries](https://docs.microsoft.com/en-us/sql/t-sql/queries/queries?view=sql-server-ver15)
* [SQL Coding Standards](http://jobfunc2.cu.net/Job%20Functions/Programmer/Programmer%20Handbook/Tims%20Best%20Practices%20-%20Standards/Database%20Best%20Practices%20-%20SQL%20Coding%20Standards.docx)

# Exercise

1. Using Microsoft SQL Server Management Studio, execute the following table creation script to create the [CUTTCusMas](Resources/CUTTCusMas.sql) table in your personal database:

**CREATE TABLE dbo.CUTTCusMas**

**(**

**CUSNO CHAR( 5 ) NOT NULL,**

**BRANCH CHAR( 3 ) NOT NULL,**

**CTERRNO CHAR( 3 ) NOT NULL,**

**CSLSMAN1 CHAR( 3 ) NOT NULL,**

**CSLSMAN2 CHAR( 3 ) NOT NULL,**

**CITY VARCHAR( 50 ) NOT NULL,**

**CONSTRAINT PK\_CUTTCusMas PRIMARY KEY( CUSNO )**

**)**

1. Using Microsoft SQL Server Management Studio, execute the following bulk insert script to populate the [CUTTCusMas](Resources/CUTTCusMas.sql) table in your personal database:

**BULK INSERT dbo.CUTTCusMas**

**FROM '\\rolle\F\Production\TIMS\Training\CUToolkit\Exercise2\Resources\CUTTCusMas.txt'**

**WITH**

**(**

**FIELDTERMINATOR = ',',**

**ROWTERMINATOR = '\n'**

**)**

**GO**

1. Using Microsoft SQL Server Management Studio and the [CUTTCusMas](file:///E:\Documents\Synergy%20Tutorials\Synergy%20Training\CU%20Toolkit\Resources\CUTTCusMas.sql) table in your personal database:
   1. Determine the value of the **BRANCH** column for **CUSNO** ‘00MB1’
   2. Determine the number of customers having **BRANCH** ‘001’:
   * Make sure you can do this while only getting the number of matching rows as a result, not a row for every match in your select statement, just the number of rows.
   * What is the most efficient method (database wise) of performing this query?
   1. Set the column **CTERRNO** equal to ‘ABC’ for all rows having branches equal to ‘001’.
   2. Remove all rows having column **CSLSMAN1** equal to ‘001’ and column **CTERRNO** not equal to ‘000’.
   3. Set the column **CSLSMAN2** to ‘XYZ’ for all rows having column **CITY** equal to ‘BILLINGS’.
2. Using Microsoft SQL Server Management Studio, execute the following drop table script to remove the [CUTTCusMas](Resources/CUTTCusMas.sql) table in your personal database:

**DROP TABLE dbo.CUTTCusMas**

# Discussion

This is just a brief introduction to SQL. The statements in this exercise are intentionally simple, and are not meant to represent the complexity found in a typical production database.