

# Programming Exercise 06

## Creating and Altering a Table

### T-SQL Fundamentals

You must use SQL Server to complete this exercise. Complete the following tasks. Look in the `ISTA420/data/cctext` directory on my Github account. You will find eight `csv` files and one database diagram as a `pdf` file. Invoke SSMS, and complete the following steps.

Your deliverable should be a plain text SQL script file (`.sql`) that contains a header showing your name, the name of the assignment, and the date. The body of the text file should echo the SQL statement you use to complete each step of the exercise and the results of the query.

1. Create an appropriate table schema for all data files (the text files). Include primary and foreign keys, plus any other constraints that you feel are necessary.
2. Import the CSV data into the tables you just created.
3. Perform the following queries:
  - (a) How many distinct products does ClassicModels sell?
  - (b) Report the name and city of customers who don't have sales representatives?
  - (c) What are the names of executives with VP or Manager in their title? Use the CONCAT function to combine the employee's first name and last name into a single field for reporting.
  - (d) Which orders have a value greater than \$5,000?
  - (e) Report the account representative for each customer.
  - (f) Report total payments for Atelier graphique.
  - (g) Report the total payments by date
  - (h) Report the products that have not been sold.
  - (i) List the amount paid by each customer.
  - (j) List products sold by order date.
  - (k) List the order dates in descending order for orders for the 1940 Ford Pickup Truck.
  - (l) List the names of customers and their corresponding order number where a particular order from that customer has a value greater than \$25,000?
  - (m) Compute the commission for each sales representative, assuming the commission is 5% of the value of an order. Sort by employee last name and first name.
  - (n) What is the difference in days between the most recent and oldest order date in the Orders file?
  - (o) Compute the average time between order date and ship date for each customer ordered by the largest difference.