

# Programming Exercise 05

## Creating and Altering a Table

### T-SQL Fundamentals

You must use SQL Server to complete this exercise. Complete the following tasks. Look at the csv file named `\data\USPresidents.csv` in the data directory. Invoke SSMS, and complete the following steps.

Your deliverable should be a plain text file (`.txt`) 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.
2. Insert the CSV data into the table you just created.
3. Delete the column that contains the path to the images.
4. Delete the first record from your table using the output clause. This is the header.
  - You may combine the following two steps.
  - Alter the presidents table by adding an integer column, beginning at 1 and ending at 44, that is NOT NULL and UNIQUE.
  - Alter the presidents table by adding the column you created as a primary key column with a new constraint.
5. Bring the data up to date by updating the last row. Use the output clause.
6. Bring the data up to date by adding a new row. Use the output clause.
7. How many presidents from each state belonged to the various political parties? Aggregate by party and state. Note that this will in effect be a pivot table.
8. Create a report showing the number of days each president was in office.
9. Create a report showing the age (in years) of each present when he took office.
10. See if there is any correlation between a president's party and reported religion, or lack of reported religion.