# CSV and Data Table

# Reading CSV

```
□using System;
      using System.Data;
     using System.IO;
     using System.Linq;
     □namespace test
          class Program
 9
              static string fullPath = "d:\\temp\\person100.csv";
10
              static DataTable myTable;
11
12
              static void Main(string[] args)...
13
     static void ReadCsv()...
19
              static void PrintTable()...
41
              static void PrintColumnNames(DataTable table)...
52
59
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```

```
static void ReadCsv()
    using (StreamReader sr = new StreamReader(fullPath))
        myTable = new DataTable();
        string[] headers = sr.ReadLine().Split(',');
        for (int i = 0; i < headers.Count(); i++)</pre>
            myTable.Columns.Add();
        while (!sr.EndOfStream)
            string[] rows = sr.ReadLine().Split(',');
            DataRow dr = myTable.NewRow();
            for (int i = 0; i < rows.Count(); i++)</pre>
                dr[i] = rows[i];
            myTable.Rows.Add(dr);
```

```
static void PrintTable()
   foreach (DataRow dataRow in myTable.Rows)
       foreach (var item in dataRow.ItemArray)
           Console.Write(item + ",");
       Console.WriteLine();
static void PrintColumnNames(DataTable table)
   foreach (DataColumn column in table.Columns)
       Console.WriteLine(column.ColumnName);
```

```
Column1
Column2
Column3
Column4
carolina,Basildon,England,United Kingdom,
Betina, Parkville , MO, United States,
Federica e Andrea,Astoria ,OR,United States,
Gouya,Echuca,Victoria,Australia,
Gerd W ,Cahaba Heights,AL,United States,
LAURENCE, Mickleton , NJ, United States,
Fleur, Peoria, IL, United States,
adam,Martin,TN,United States,
Renee Elisabeth, Tel Aviv, Tel Aviv, Israel,
Press any key to continue . . .
```

### Set column name

```
static void SetColumn(DataTable table)
{
    table.Columns[0].ColumnName = "Name";
    table.Columns[1].ColumnName = "City";
    table.Columns[2].ColumnName = "State";
    table.Columns[3].ColumnName = "Country";
}
```

# Set column properties

```
static void AddColumn(DataTable table)
   DataColumn column;
   column = new DataColumn();
   column.ColumnName = "SupplierID";
   column.DataType = System.Type.GetType("System.String");
   column.Unique = true;
   column.AutoIncrement = false;
   column.Caption = "SupplierID";
   column.ReadOnly = false;
    // Add the column to the table's columns collection.
   table.Columns.Add(column);
```

## Excercies