

# Exercise Problems

We will use the exercise\_data.csv file to answer the following:

1. The column names do not follow proper naming convention:
  - a. There are signs like '\$', '%' in the column names.
  - b. Few column names are in upper case and a few of them in lower case
  - c. In few columns, there are underscore '\_' sign in between the words while in few column names, there are blank spaces in between the words.

Write your code to clean up and resolve issues in the column name. You may think of using 'gsub' function to deal with the above issues. More about the function gsub() at: <http://www.endmemo.com/program/R/gsub.php>

2. The values in few columns may not read in correct data type due to presence of special characters like '\$', '(', ')', '%', ','. Write your code to clean up to read the values in correct data type. You may think of using 'gsub' function to deal with the above issues. More about the function gsub() at: <http://www.endmemo.com/program/R/gsub.php>
3. After having solved question 1 and question 2; you will obtain a clean and processed data with correct data types. Using the clean data, write your code to compute the following metrics:
  - Gross Margin = Net Sale – Net Cost
  - Percentage Gross Margin = (Net Sale – Net Cost)/Net Sale
  - Net Sales Per Fashion Style = Net Sale / Fashion Style Count
  - Gross Margin Per Fashion Style = Gross Margin / Fashion Style Count
  - Net Sales per Sales Units = Net Sales / Sales Units