Project 2.1: Data Cleanup

Make a copy of this document. Complete each section. When you are ready, save your file as a PDF document and submit it here: <https://classroom.udacity.com/nanodegrees/nd008/parts/8d60a887-d4c1-4b0e-8873-b2f36435eb39/project>

## Step 1: Business and Data Understanding

*Provide an explanation of the key decisions that need to be made. (250 word limit)*

### Key Decisions:

*Answer these questions*

1. What decisions needs to be made?

The city for Pawdacity’s newest store, based on predicted yearly sales.

1. What data is needed to inform those decisions?

Outcome:

Potential predictors:

## Step 2: Building the Training Set

*Build your training set given the data provided to you. Your column sums of your dataset should match the sums in the table below.*

*In addition provide the averages on your data set here to help reviewers check your work. You should round up to two decimal places, ex: 1.24*

|  |  |  |
| --- | --- | --- |
| **Column** | **Sum** | **Average** |
| *Census Population* | *213,862* |  |
| *Total Pawdacity Sales* | *3,773,304* |  |
| *Households with Under 18* | *34,064* |  |
| *Land Area* | *33,071* |  |
| *Population Density* | *63* |  |
| *Total Families* | *62,653* |  |

## Step 3: Dealing with Outliers

*Answer these questions*

Are there any cities that are outliers in the training set? Which outlier have you chosen to remove or impute? Because this dataset is a small data set (11 cities), **you should only remove or impute one outlier**. Please explain your reasoning.

Before you Submit

Please check your answers against the requirements of the project dictated by the [rubric](https://review.udacity.com/#!/rubrics/382/view) here. Reviewers will use this rubric to grade your project.