Project 2.1: Data Cleanup

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?

To recommend the city for Pawdacity's newest store, based on predicted yearly sales.

2. What data is needed to inform those decisions?

I need data on existing store's year sales, census population data as well as demographic information associated with these existing stores such as households with individuals under 18, land area, population density, and total families to see whether any of these variables can drive our existing store sales.

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

	Sum	Average
Total Pawdacity Sales	3773304.00	343027.64
Census 2010	213862.00	19442.00
Land Area	33071.38	3006.49
Households with Under 18	34064.00	3096.73
Population Density	62.80	5.71
Total Families	62652.79	5695.71

Step 3: Dealing with Outliers

Answer these questions

Are there any cities that are outliers in the training set?

➤ The outlier cities are Cheyenne, Gillette, and Rock Springs

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.

- ➤ I will remove Cheyenne city as an outlier
- > The reason to remove Cheyenne city is removing bias to my model as total sales, census population, population density, and total families have extreme value which has higher chance to never repeat in other cities.