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Project 3 Write-Up

**Abstract**

The goal of my project was to look at home sales during the year of 2022 to see what brokerages have led sales in their area. I used data from a local MLS to get information about where sales have taken place, how long homes were on the market, what they sold for and who represented the buyer/seller. I used Tableau to visualize my results.

**Design**

I used selenium to scrape information regarding homes sales from a local MLS. After cleaning my data, I used Excel for some data manipulation. Finally, I used Tableau to visualize all my data.

**Data**

My data set included 1418 rows, all sales from 1/1/2022 – 5/3/2022. I looked at the listing agent and broker, same for the buyer, listing price, sales price, the close data, days on the market, the town the home was sold in, and terms of the deal.

**Algorithms**

Excel Manipulation:

1. Finding the ratio of how much a home sold for compared to the listing price.
2. Finding a ratio that showed how much over or under the listing price a home sold for that also included how many days the home was on the market.
3. Found the average days on the market for brokerages and town to understand the market.
4. Found the average ratio over/under the listing price a home sold for in towns and brokerages to understand the market.
5. Calculated the total number of sales for brokerages.

**Tools**

* Selenium to scrape data
* Pandas to clean data
* Excel to manipulate data
* Tableau to visualize data

**Communication**

Visuals provided in slides.