King County Prices Project

Goal

Use modeling and statistical methods on property data to develop recommendations homeowners can use to increase the sale prices of their homes.

Data

- King County House Sales dataset.
- King County Department of Assessments.
- 16,323 rows of 2019 property data.

Methods

SQLite, Python, Pandas, Statsmodels, Numpy, Scikit Learn, and Seaborn were used for data preparation, analysis, modeling, testing, and visualization.













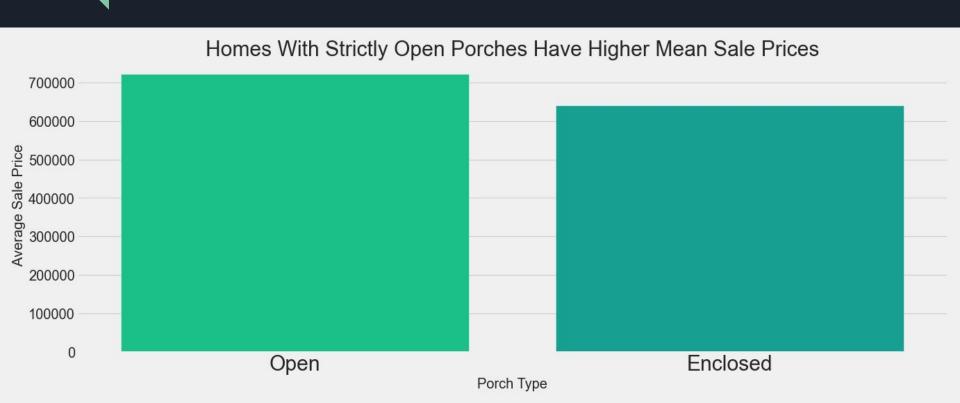
Recommendations

• Convert enclosed porches to open porches.

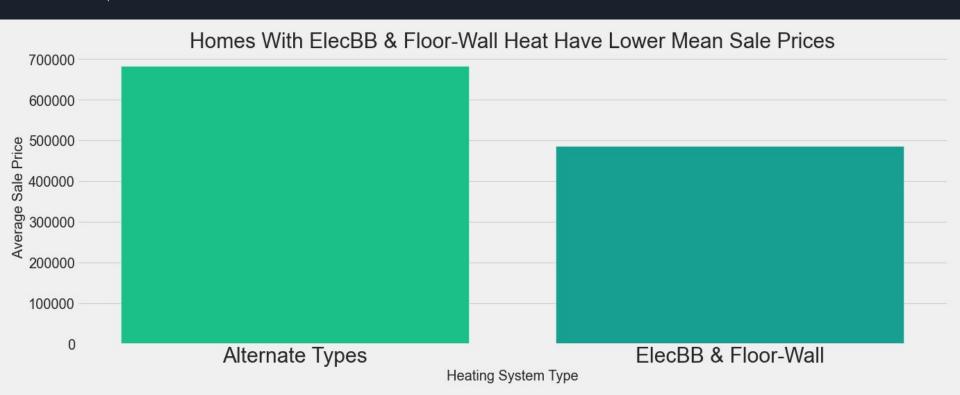
 Upgrade Electric Baseboard & Floor-Wall heating systems to alternate heating types.

Upgrade basements to a finished quality level of at least average.

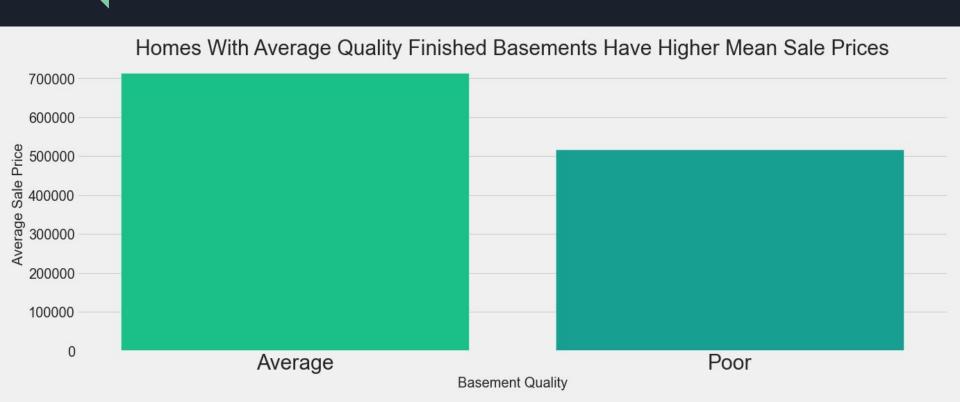
The difference in average sale price is \$82,926.



The difference in average sale price is \$197,538.



The difference in average sale prices is \$197,879.



Next Steps

- Continued data analysis and model adjustment.
- A look into the set of mixed porch homes.
- Exploration into the alternate heating systems.
- Quantification of the basement quality levels.

Thank You!

Email: jeffrey.h.watson@protonmail.com

GitHub: @jeffrey.h.watson