

Exploratory Data Analysis

King County Real Estate Data

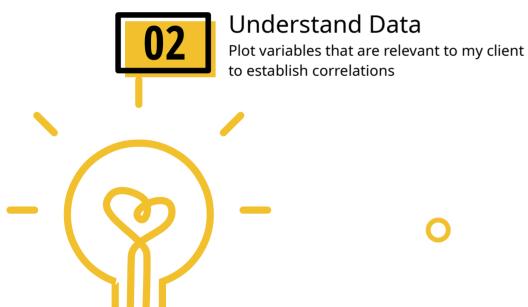
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Clean Data

- Check for duplicates
- Check missing entries
- Round data
- Fix unreasonable entries



Establish and Implement Criteria

Established criteria according to client's needs and implemented it as filter to data

04

Reach Conclusion

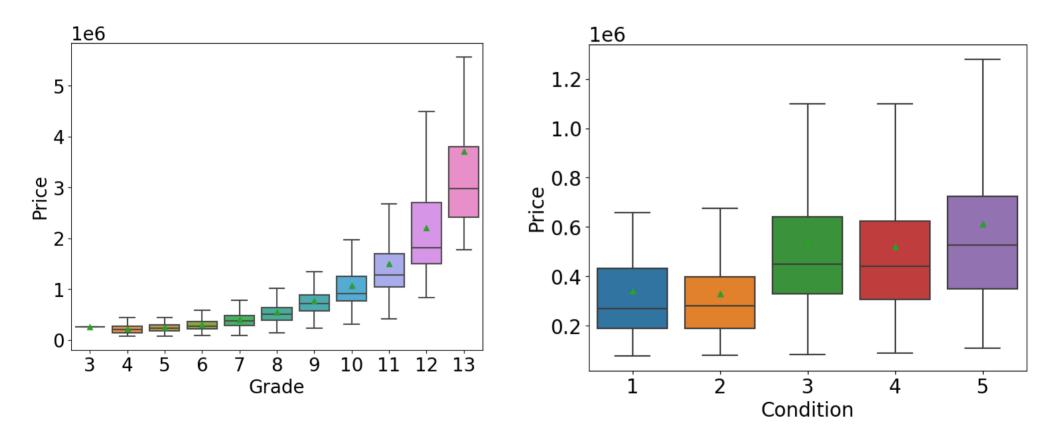
Ultimate goal: Find properties for my client

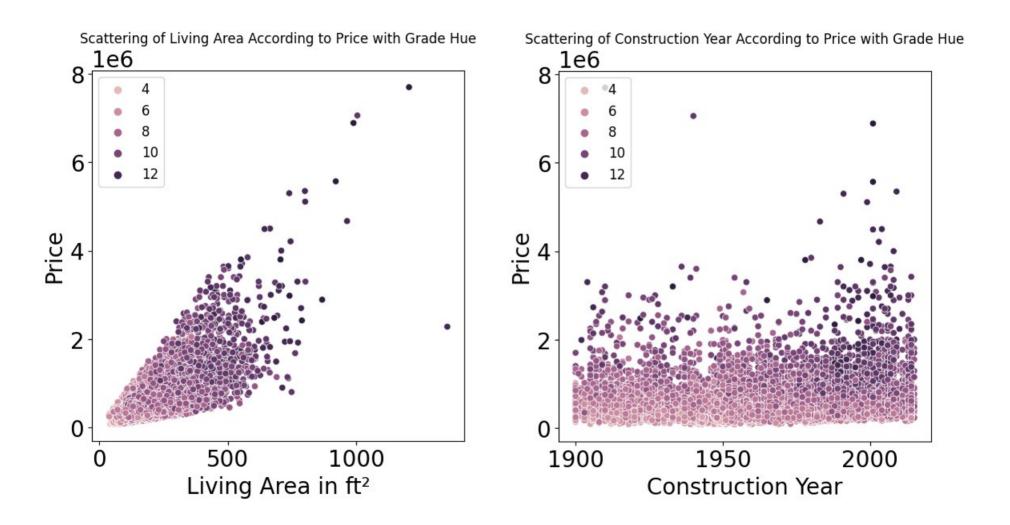




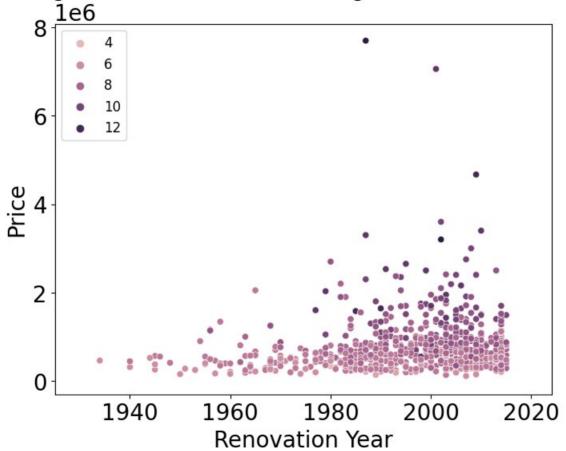
Understanding Data

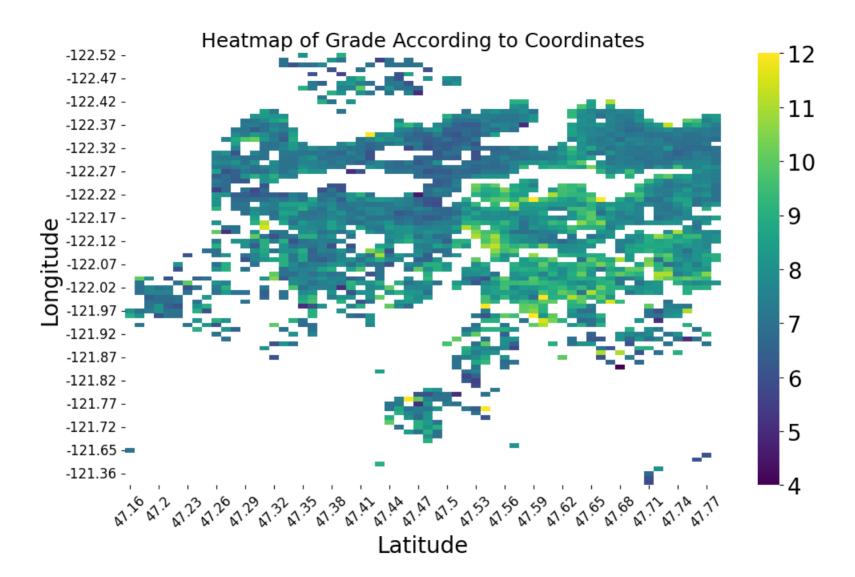
Using Price as Guiding Variable

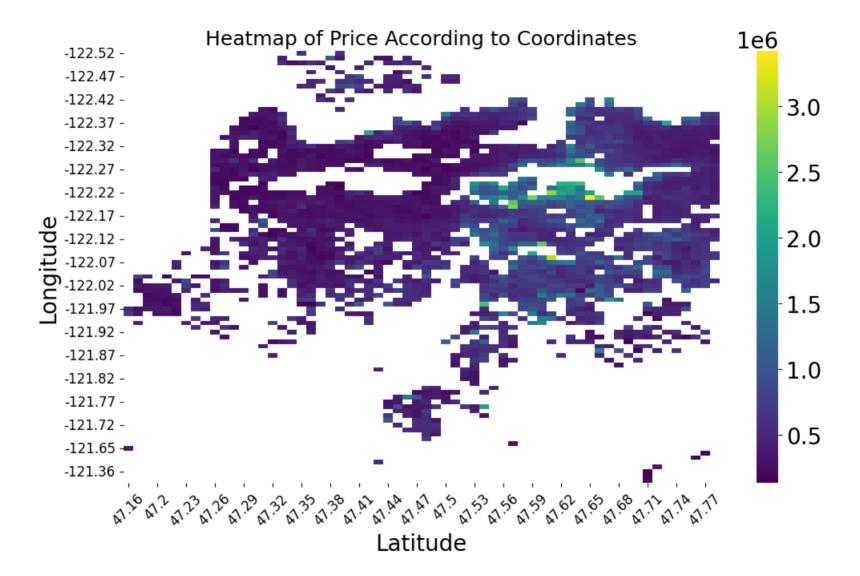




Scattering of Renovation Year According to Price with Condition Hue







Client:

5 kids, no money, wants nice (social) neighborhood, Timing?, Location?

Criteria:

- Wants house of grade under average, so **grade under 8** as he is handy and willing to renovate himself. He wants **at least 4 bedrooms and 2 bathrooms**, he wants **no waterfront**, as his kids don't know how to swim and it makes the property more expensive. He wants **at least 120m² of living area and at least 50m² garden** for his kids to play in and his garden does not have to be larger than 100m². He **wants a basement** to storage all his kid's stuff.
 - Garden area is equal to lot area minus living area
- My client sets the limit price as average price for houses within first criteria
- I define a neighborhood as social, where houses are of average grade above 8



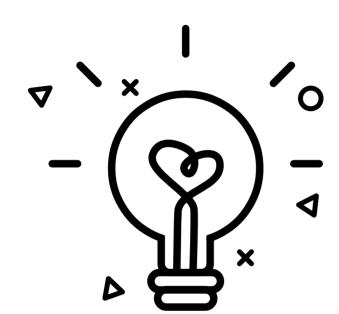




Results

I filtered out properties that don't fit my criteria and I come up with a list of 10 properties that are a match for my client

house_id	price
3814400125	493000.000
4278900055	599000.000
6373000130	555000.000
6870310010	599950.000
1565930130	429900.000
8812401450	660000.000
710600160	665000.000
3574770100	550000.000
1523059239	475000.000
1776230190	495000.000



THANK YOU

