

### **Exploratory Data Analysis**

King County Real Estate Data

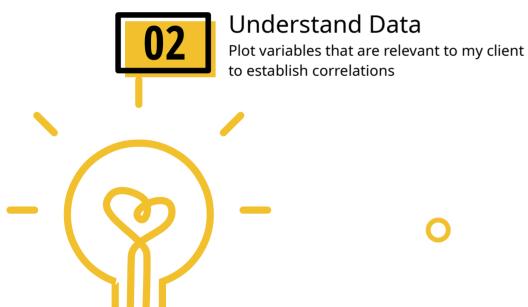
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### Clean Data

- 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**

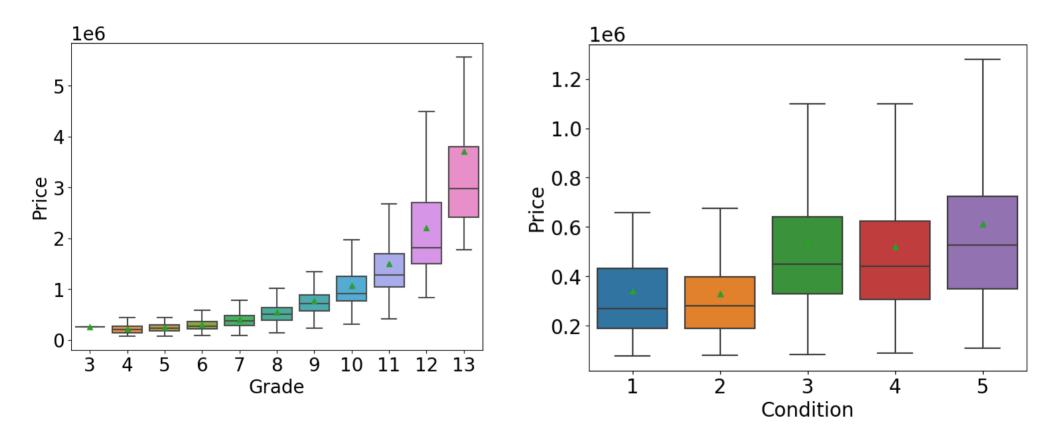
Ultimate goal: Find properties for my client





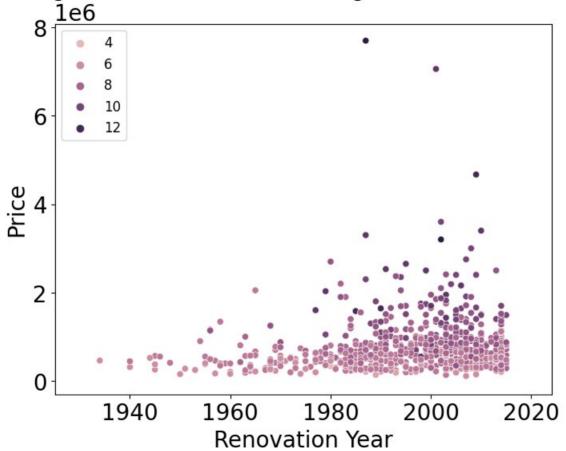
# **Understanding Data**

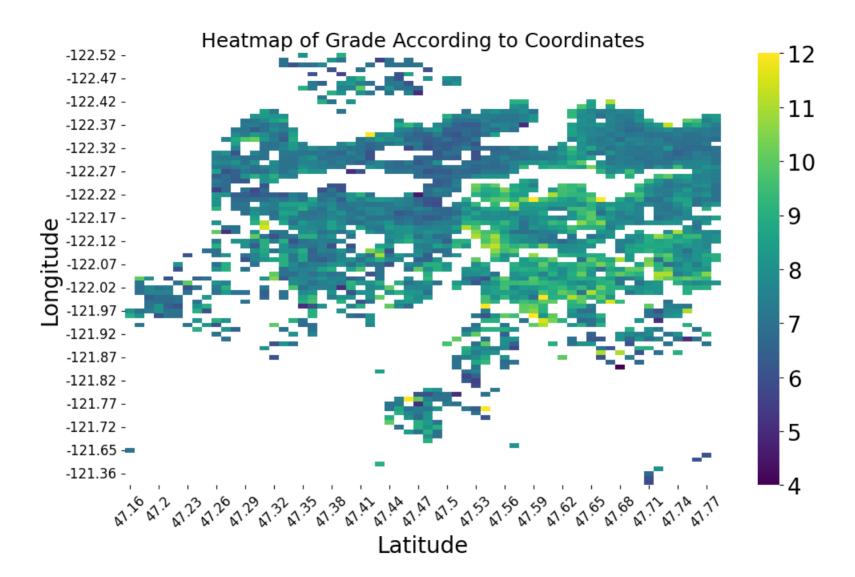
Using Price as Guiding Variable

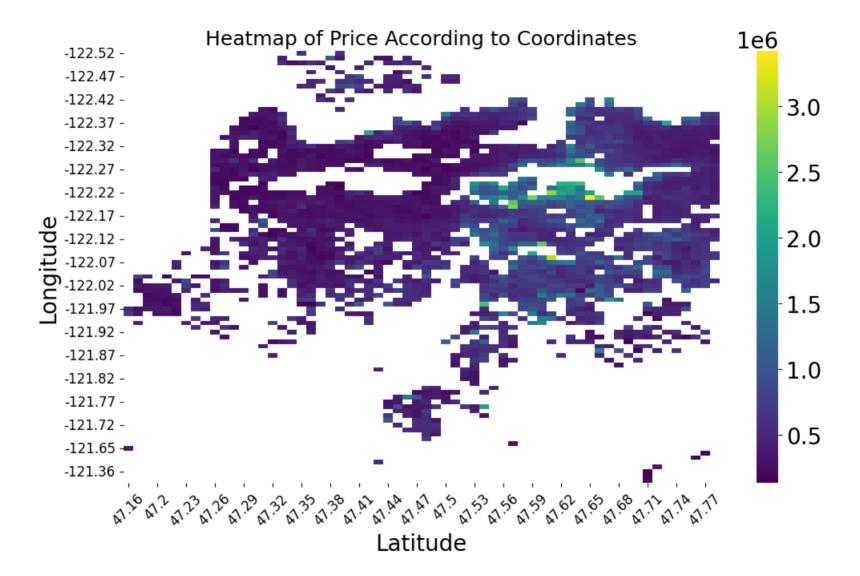


Scattering of Living Area Year According to Price with Grade Hue Scattering of Construction Year According to Price with Grade Hue 1e6 1e6 8 8 10 6 12 Price 4 Price 4 2 1000 2000 500 1900 1950 Construction Year Living area in ft<sup>2</sup>

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 8 my client 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 under grade mostly above 8



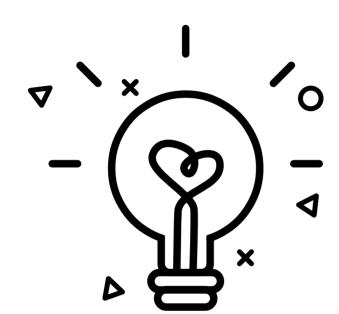




## Results

Given all the criteria, I can 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** 

