**LEWIS COUNTY HOUSING DATA PROJECT**

10/3/23 @ 2:00 PM

**Retrieve Data:**

<https://lewiscountywa.gov/offices/assessor/sales-data/>

Lewis County Residential All Sales

[file:///C:/Users/talkt/Desktop/Sarah's%20Getting%20a%20Job%20BAYBEE!!!/PortfolioProjects/LC%20Housing/Residential.pdf]

Limitations: Data that is not included:

* Land Sales
* Commercial
* Manufactured homes
* Mobile homes

**Storing Data:**

PortfolioProjects → LC Housing → Residential.pdf

    → Sales Key

* data-process-notes
* Market-Neighborhood Key (from website)

**Cleaning Data:**

Open Excel, Data Tab, Get Data, From PDF, Load as 1 Table (all pages together)

Format Header Rows, then delete extra row 2

Save as LC-housing (.xlsx & .csv)

Check for duplicates – none

Create new column: ‘Neighborhood’ = NBHD column has key

**Exploring Data:**

Open Tableau Public, Open Excel Worksheet

Sheet 1: Line Chart: Average house price sales

* Sale Date (txt format) – change format to date
  + Right click to “column”
* Sale Price (txt) – change to number w/ decimal
  + Right click to “rows” Click average
* Format to color #ff7b00, change Worksheet labels same
* Format-lines ‘NONE’
* Rename Sheet 1 = LineChart

Sheet 2: Map: Average sales by zip code/ Neighborhood

* Geo location data not on any points. Add ‘Neighborhoods’ + manually add zip codes in the “Settle the Unknown” ~30 min task, but pros out way the cons = very impressive
* Background layers ‘Street’
* Sold Price to Color = Avg.
* Adjust color, size
* Title: Map, Tab: Map

Sheet 3: Distribution of house prices

* Click Sale Price, change to Measure(green, not blue), click show me “histogram”
* Change color
* Left click ‘Format’, “worksheet” change color, under lines click none all down (same for line chart)

Sheet 4: Distribution of SqFt of Houses

* Total living- convert to measure (number-decimal)- histogram
* Copy and paste formatting, adjust tool tip and headers, and axis titles

Sheet 5: Heat map of quality and condition

* Condition to col
* Quality to row
* Click heat map
* Manual sort for best at top
* Label- match mark color
* Remove null row & col
* Review website for quality codes (Ex. A = Average)

Sheet 6: Calendar & Filters

* Sale date to row (weekdays)
* Sale date to col (week)
* Sale date to filter, month/year
* Avg. Price to color
* Sale date to label, select day
* Change marks from automatic to square
* To filter add 3 measures: acres, total living, and year built

Dashboard:

* Size- fixed- generic laptop, use minimum, uncheck maximum
* Drag Vertical container, add text to it, “Filters”
  + TW CEN MT condens… 16
* Drag blank, height of 10, purple, (creates nice line)
* Drag in calendar
* Filters “Sale date” 🡪 dropdown list
  + Put above calendar
  + Other filters drag below
    - Year built – total living – acres
    - Adjust filter Titles to reflect clear user instructions

Drag another vertical container to the right of the current one

* Title text, then blank object line, then line chart, then map
* Adjust formatting and titles

Add histogram under line chart, add heat map to the right of histogram

Edit and adjust chart positions, format all titles and axis

**Save to Tableau Public**

Check presentation mode

Adjust filter positioning,

Save to Tableau Public