Tableau Project

(1) Data is Taken From Open Data Portal Canada

(2) Analyzed Data in Tabelau with different Visualization to gain insights and patterns for the data

Project Flow

- Creating Relationships between different Data files so it helps in creating visualization
- Creating Visualizations to answer different questions
- Creating Dashboard for overview

Showing Trend For Housing Value Over last 40 Years

Showing Trend For Housing Value Over last 40 Years

The Line Chart Shows the Changes in Housing Value from year 1979 to 2020

Trend

The trend of average of Index Value for Date Year.

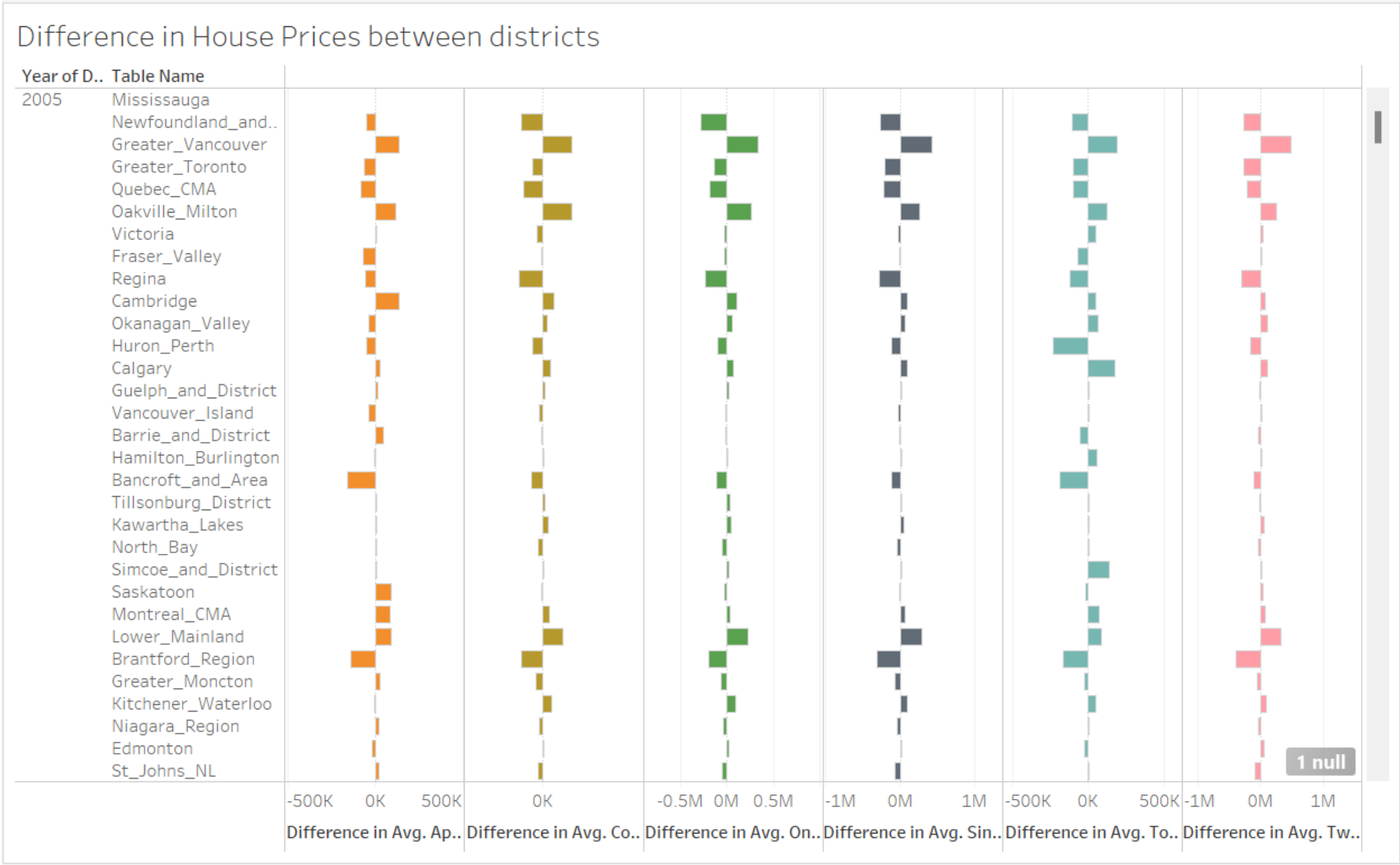
Checking Differences between districts

(1)We have created a Bar chart to check price differences between different districts in Canada over the Years for Different House Prices

(2) There is no relative difference between house Prices between different districts

(3) I have included a snippet of the visualization

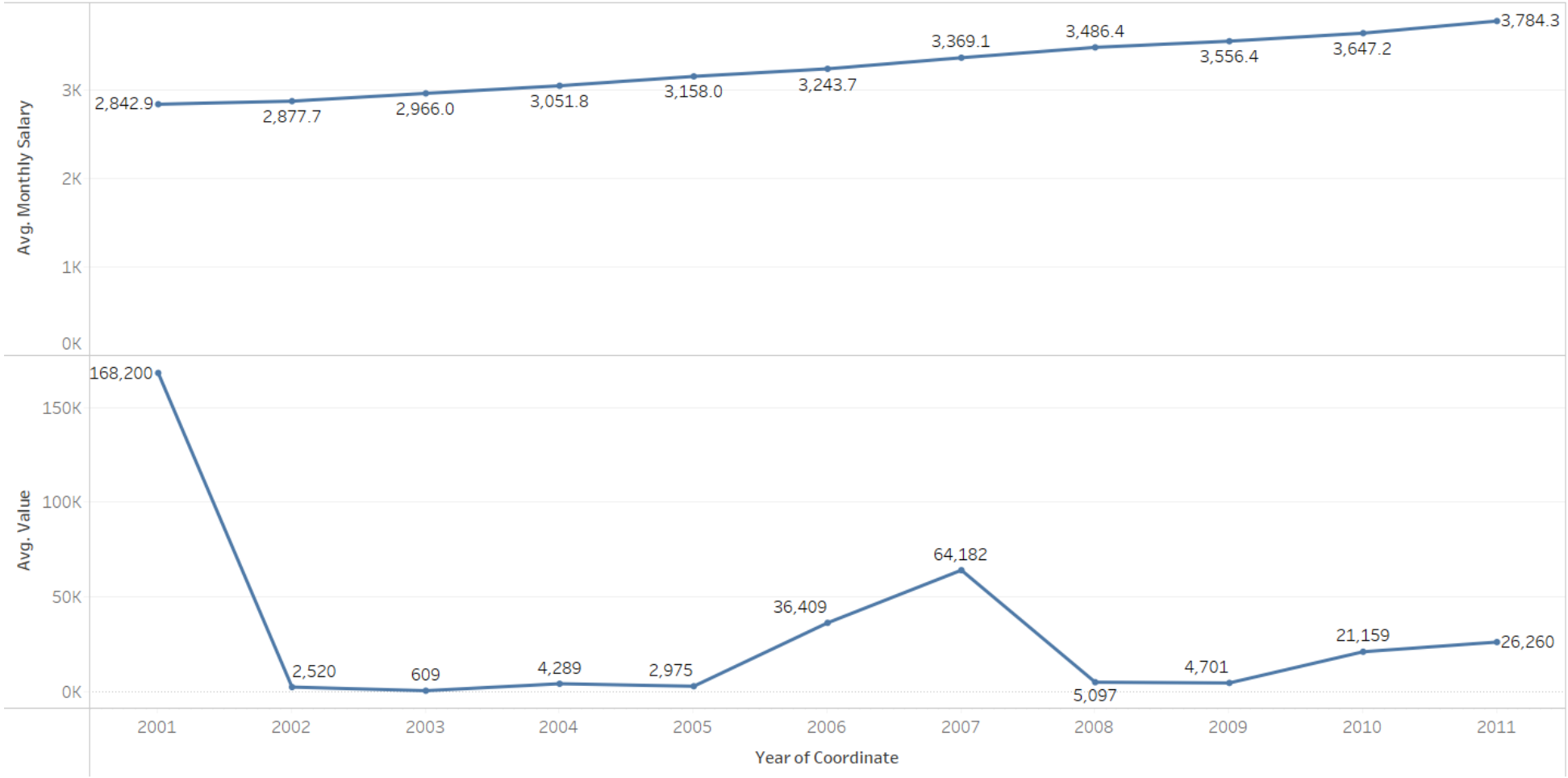
Difference in House Prices between districts



Comparing Monthly Income with Housing Prices over the years

- We have seen that monthly Income has increased Steadily throughout the Years
- House Prices have been Fluctuating over the years caused by different Financial Crisis over the years

Housing Price with Montly Salary Across Canada over the Years

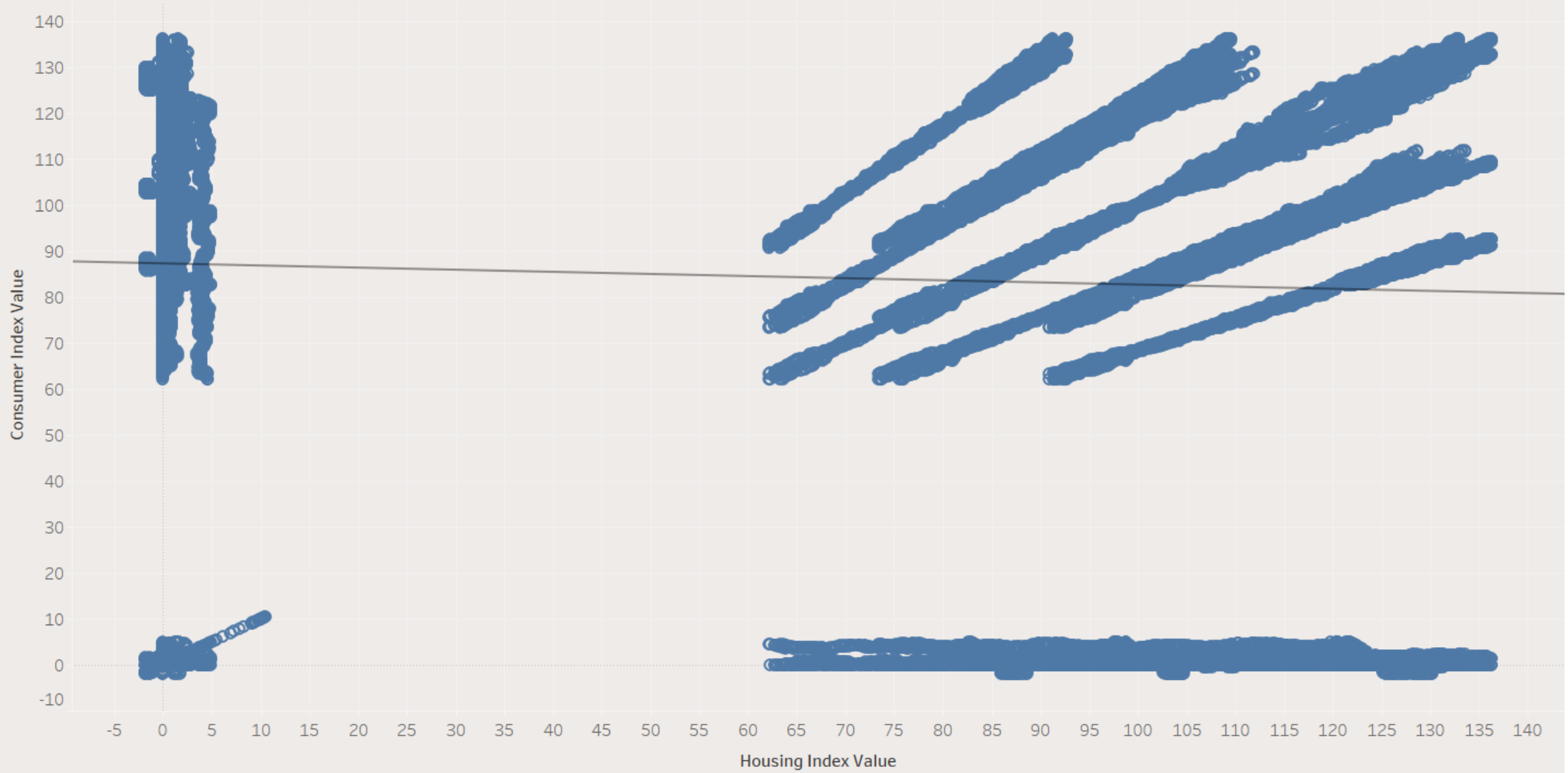


The trends of average of Monthly Salary and average of Value for Coordinate Year. The data is filtered on When Year, Housing estimates, Action (Crisis Period Flag,Housing estimates,YEAR(Date)) and Action (Crisis Period Flag,YEAR(Date (Office Realestate Index.Csv)),Property Type). The When Year filter includes dates on or after 2001. The Housing estimates filter keeps multiple members. The Action (Crisis Period Flag,Housing estimates,YEAR(Date)) filter keeps 78 members. The Action (Crisis Period Flag,YEAR(Date (Office Realestate Index.Csv)),Property Type) filter keeps 222 members. The view is filtered on average of Value, which keeps non-Null values only.

Relation Between Consumer Index and Housing Price Index

- Created a Regression Model to find the relation between Consumer Index and Housing Price Index
- As per Model : There is Negative correlation between Both Variables
- As Housing Price Index increases the Consumer Index decreases

Realtion Between Consumer Index and Housing Index

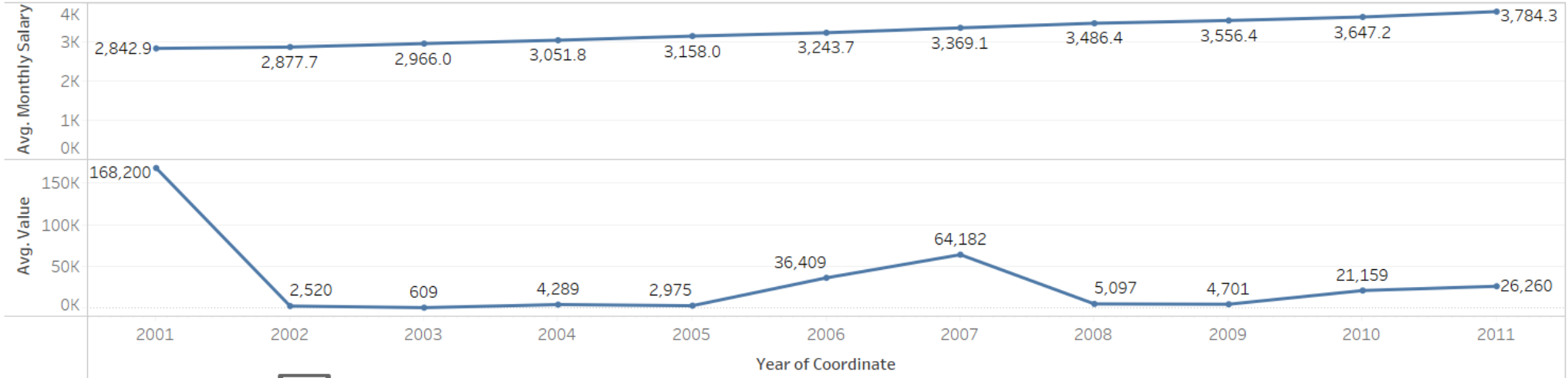


Index Value vs. Index Value (Consumer Index.Csv). The view is filtered on Index Value (Consumer Index.Csv) and Index Value. The Index Value (Consumer Index.Csv) filter keeps non-Null values only. The Index Value filter keeps non-Null values only.

Housing Crisis over the Years

- I have Showed the effect of different Housing and Financial Crisis over the years on different factors
- Earnings
- Hosing Prices
- Office Prices

Housing Price with Montly Salary Across Canada over the Years



Housing estimates
- (All)
- Housing compl...
- Housing starts
- Housing under ...

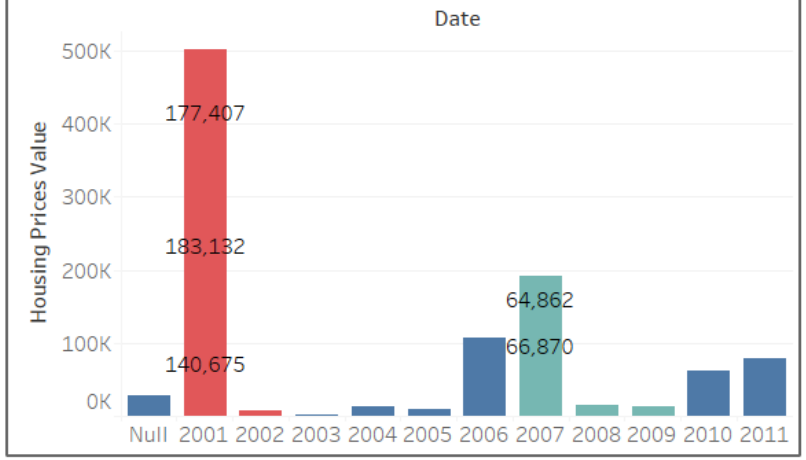
Crisis Period Flag
- (All)
- Null
- Black Monday
- Dot Com Bubble
- Financial Crisis
- Recession

Crisis Period Flag
- Null
- Dot Com Bubble
- Financial Crisis

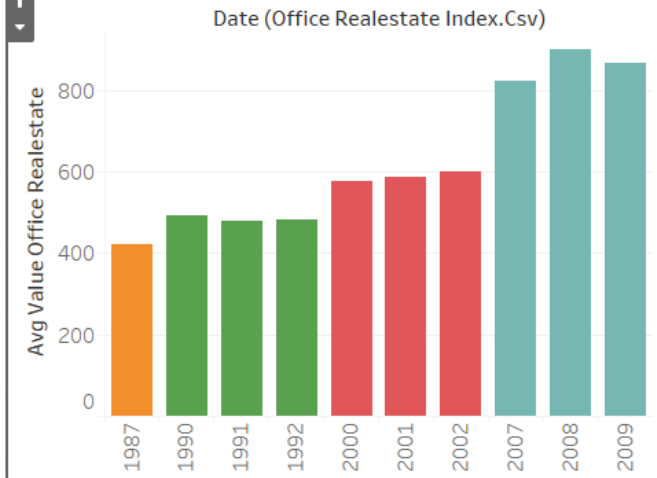
Crisis Period Flag
- (All)
- Null
- Black Monday
- Dot Com Bubble
- Financial Crisis
- Recession

Property Type
- (All)
- Apartment
- Light factory
- Office
- School
- Shopping centre
- Warehouse

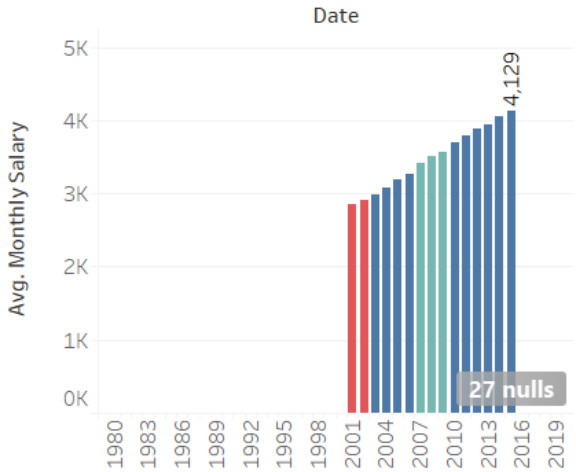
Affect of Different Housing Crisis Thorughout the Years on Housing Prices

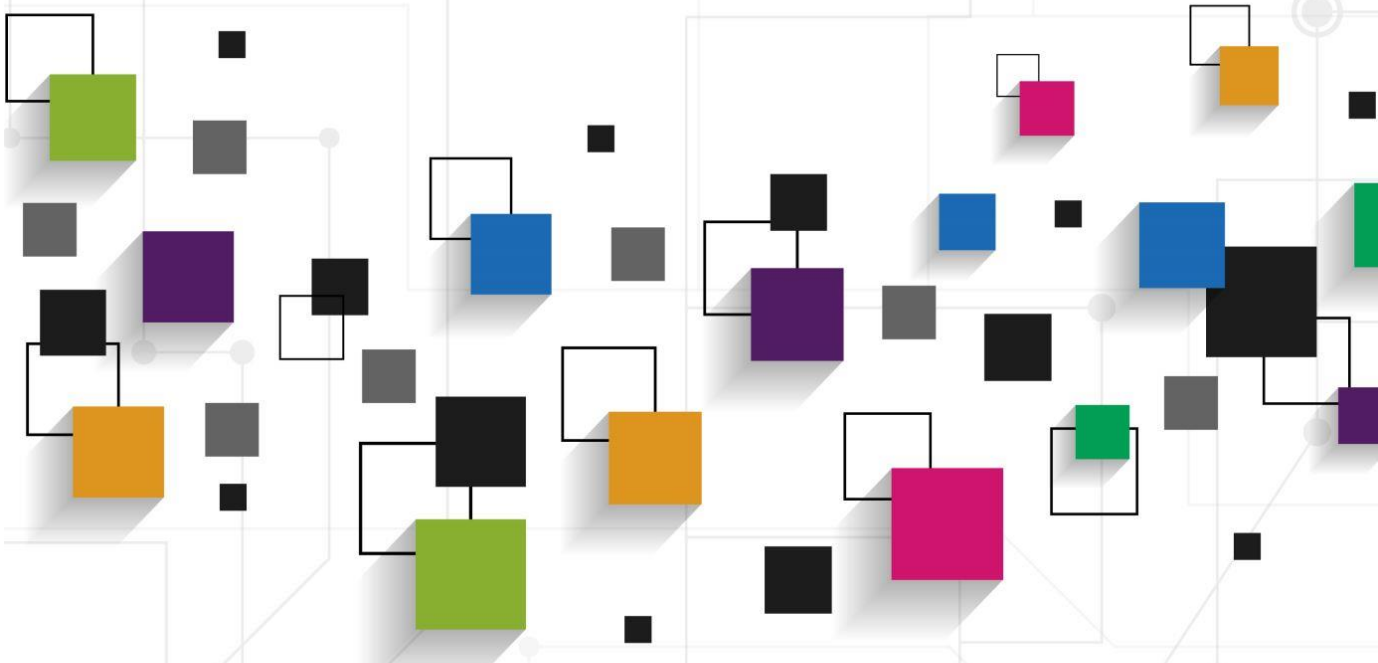


ffect of Crisis on Office Prices



Crisis Affect on Earnings



Challenges and had more Time

- Finding Relations between Different Data Tables
- Lots of data was only available for last 15 years
- If had more time gather more data