HousePricing

January 31, 2021

1 Housing Prices: Can you predict the home sales prices in Melbourne?

```
[1]: import warnings
  warnings.filterwarnings('ignore')
  import pandas as pd
  import numpy as np
  import seaborn as sns
  import matplotlib.pyplot as plt
```

1.1 Import the Data

```
[2]: # Remove redundant/unique information

dfHousePrices = pd.read_csv("house_prices.csv", usecols = ['Suburb', 'Rooms',

→'Type', 'Price', 'Method', 'Seller', 'Distance', 'Bedroom', 'Bathroom',

→'Car', 'Landsize', 'BuildingArea', 'YearBuilt', 'CouncilArea', 'RegionName',

→'PropertyCount', 'Postcode'])

dfHousePrices.head()
```

| [2]: | | Subu | rb Ro | oms | Туре | Pric | e Method | d Selle | er Distance | Postcode | \ |
|------|------|--------|--------|-----|------|--------|----------|----------|--------------|-----------|------|
| 0 | Abbo | otsfor | rd | 2 | h | 148000 |) C | S Biggi | in 2.5 | 3067 | |
| 1 | Abbo | otsfor | rd | 2 | h | 103500 | 0 0 | S Biggi | in 2.5 | 3067 | |
| 2 | Abbo | otsfor | rd | 3 | h | 146500 | O SI | Biggi | in 2.5 | 3067 | |
| 3 | Abbo | otsfor | rd | 3 | h | 85000 | O P. | [Biggi | in 2.5 | 3067 | |
| 4 | Abbo | otsfor | rd | 4 | h | 160000 | IV C | B Nelso | on 2.5 | 3067 | |
| | | | | | | | | | | | |
| | Bedi | room | Bathro | oom | Car | Landsi | ze Buil | ldingAre | ea YearBuilt | CouncilAr | ea ' |
| _ | | _ | | | | _ | | | | | |

| | ${\tt Bedroom}$ | ${\tt Bathroom}$ | Car | Landsize | BuildingArea | YearBuilt | CouncilArea | \ |
|---|-----------------|------------------|-----|----------|--------------|-----------|-------------|---|
| 0 | 2 | 1 | 1.0 | 202 | NaN | NaN | Yarra | |
| 1 | 2 | 1 | 0.0 | 156 | 79.0 | 1900.0 | Yarra | |
| 2 | 3 | 2 | 0.0 | 134 | 150.0 | 1900.0 | Yarra | |
| 3 | 3 | 2 | 1.0 | 94 | NaN | NaN | Yarra | |
| 4 | 3 | 1 | 2.0 | 120 | 142.0 | 2014.0 | Yarra | |

RegionName PropertyCount

| 0 | Northern | Metropolitan | 4019 |
|---|----------|--------------|------|
| 1 | Northern | Metropolitan | 4019 |
| 2 | Northern | Metropolitan | 4019 |

```
3 Northern Metropolitan 4019
4 Northern Metropolitan 4019
```

```
[3]: dfHousePrices.shape dfHousePrices.describe()
```

| [3]: | | Rooms | Price | Distance | Postcode | ${\tt Bedroom}$ | \ |
|------|-------|-----------------------|--------------|---------------|--------------|-----------------|---|
| | count | 13580.000000 | 1.358000e+04 | 13580.000000 | 13580.000000 | 13580.000000 | |
| | mean | 2.937997 | 1.075684e+06 | 10.137776 | 3105.301915 | 2.914728 | |
| | std | 0.955748 | 6.393107e+05 | 5.868725 | 90.676964 | 0.965921 | |
| | min | 1.000000 | 8.500000e+04 | 0.000000 | 3000.000000 | 0.000000 | |
| | 25% | 2.000000 | 6.500000e+05 | 6.100000 | 3044.000000 | 2.000000 | |
| | 50% | 3.000000 | 9.030000e+05 | 9.200000 | 3084.000000 | 3.000000 | |
| | 75% | 3.000000 | 1.330000e+06 | 13.000000 | 3148.000000 | 3.000000 | |
| | max | 10.000000 | 9.000000e+06 | 48.100000 | 3977.000000 | 20.000000 | |
| | | | | | | | |
| | | ${\tt Bathroom}$ | Car | Landsize | BuildingArea | YearBuilt | \ |
| | count | 13580.000000 | 13518.000000 | 13580.000000 | 7130.000000 | 8205.000000 | |
| | mean | 1.534242 | 1.610075 | 558.416127 | 151.967650 | 1964.684217 | |
| | std | 0.691712 | 0.962634 | 3990.669241 | 541.014538 | 37.273762 | |
| | min | 0.000000 | 0.00000 | 0.000000 | 0.000000 | 1196.000000 | |
| | 25% | 1.000000 | 1.000000 | 177.000000 | 93.000000 | 1940.000000 | |
| | 50% | 1.000000 | 2.000000 | 440.000000 | 126.000000 | 1970.000000 | |
| | 75% | 2.000000 | 2.000000 | 651.000000 | 174.000000 | 1999.000000 | |
| | max | 8.000000 | 10.000000 | 433014.000000 | 44515.000000 | 2018.000000 | |
| | | | | | | | |
| | | ${\tt PropertyCount}$ | | | | | |
| | count | 13580.000000 | | | | | |
| | mean | 7454.417378 | | | | | |
| | std | 4378.581772 | | | | | |
| | min | 249.000000 | | | | | |
| | 25% | 4380.000000 | | | | | |
| | 50% | 6555.000000 | | | | | |
| | 75% | 10331.000000 | | | | | |
| | max | 21650.000000 | | | | | |
| | | | | | | | |

1.2 Clean the Data

```
[4]: import math
# We need to fill empty values on year built, built area and car
median_year_built = math.floor(dfHousePrices.YearBuilt.median())
median_year_built
dfHousePrices.YearBuilt = dfHousePrices.YearBuilt.fillna(median_year_built)
```

```
[5]: median_car = math.floor(dfHousePrices.Car.median())
median_car
dfHousePrices.Car = dfHousePrices.Car.fillna(median_car)
```

```
[6]: median_building_area = math.floor(dfHousePrices.BuildingArea.median())
     median_building_area
     dfHousePrices.BuildingArea = dfHousePrices.BuildingArea.
      →fillna(median_building_area)
[7]: # For council area I don't want discrepancies with other location data, so rows
      →with empty cells will get dropped
     dfHousePrices = dfHousePrices[dfHousePrices['CouncilArea'].notna()]
[8]: # Delete rows with 0 as landsize
     dfHousePrices = dfHousePrices[dfHousePrices.Landsize != 0]
[9]: # Check data to see if we all empty cells are filled
     dfHousePrices.describe(include='all')
[9]:
                 Suburb
                                 Rooms
                                         Туре
                                                       Price Method
                                                                      Seller
                                                                        10272
     count
                  10272
                         10272.000000
                                         10272
                                                1.027200e+04
                                                               10272
     unique
                    305
                                   NaN
                                             3
                                                         NaN
                                                                   5
                                                                          237
     top
             Reservoir
                                   NaN
                                            h
                                                         NaN
                                                                   S
                                                                      Nelson
                                         8033
                                                                         1239
     freq
                    301
                                   NaN
                                                         NaN
                                                                7017
                    NaN
                                                1.142861e+06
                                                                         NaN
     mean
                              3.068536
                                          {\tt NaN}
                                                                 NaN
     std
                    NaN
                              0.899147
                                          NaN
                                                6.493972e+05
                                                                 NaN
                                                                         NaN
                    NaN
                                                                         NaN
     min
                              1.000000
                                          {\tt NaN}
                                                1.310000e+05
                                                                 NaN
     25%
                    NaN
                              3.000000
                                          NaN
                                                7.100000e+05
                                                                 NaN
                                                                          NaN
     50%
                    NaN
                              3.000000
                                          {\tt NaN}
                                                9.675000e+05
                                                                 NaN
                                                                          NaN
     75%
                                                1.400000e+06
                                                                 NaN
                                                                         NaN
                    NaN
                              4.000000
                                          NaN
                             10.000000
                                                9.000000e+06
                                                                          NaN
     max
                    NaN
                                          NaN
                                                                 NaN
                  Distance
                                 Postcode
                                                               Bathroom
                                                                                   Car
                                                 Bedroom
             10272.000000
                                           10272.000000
                             10272.000000
                                                           10272.000000
                                                                          10272.000000
     count
     unique
                       NaN
                                      NaN
                                                     NaN
                                                                    NaN
                                                                                   NaN
     top
                       NaN
                                      NaN
                                                     NaN
                                                                    NaN
                                                                                   NaN
     freq
                       NaN
                                      NaN
                                                     NaN
                                                                    NaN
                                                                                   NaN
     mean
                 10.402434
                              3102.092971
                                                3.038162
                                                               1.570678
                                                                              1.659073
     std
                  5.578720
                                91.127321
                                                0.916483
                                                               0.707189
                                                                              0.985341
                              3000.000000
                                                               0.000000
     min
                  0.000000
                                                0.000000
                                                                              0.00000
     25%
                  6.700000
                              3044.000000
                                                2.000000
                                                               1.000000
                                                                              1.000000
     50%
                              3081.000000
                  9.850000
                                                3.000000
                                                               1.000000
                                                                              2.000000
     75%
                 13.000000
                              3146.000000
                                                4.000000
                                                               2.000000
                                                                              2.000000
                 47.400000
                              3977.000000
                                               20.000000
                                                               8.000000
                                                                             10.000000
     max
                   Landsize
                             BuildingArea
                                                YearBuilt CouncilArea \
                              10272.000000
                                                                 10272
              10272.000000
                                             10272.000000
     count
                        NaN
                                       NaN
                                                      NaN
                                                                    33
     unique
     top
                        NaN
                                       NaN
                                                      NaN
                                                              Moreland
                        NaN
                                       NaN
                                                      NaN
                                                                  1030
     freq
                 647.930199
                                141.715375
                                              1965.026967
                                                                   NaN
     mean
```

```
1.000000
                                  0.000000
                                             1196.000000
                                                                  NaN
     min
      25%
                 258.000000
                                126.000000
                                             1960.000000
                                                                  NaN
      50%
                 516.000000
                                126.000000
                                             1970.000000
                                                                  NaN
      75%
                 670,000000
                                137.000000
                                             1970.000000
                                                                  NaN
              433014.000000
                               6791.000000
                                             2018.000000
                                                                  NaN
      max
                         RegionName
                                     PropertyCount
                               10272
                                       10272.000000
      count
      unique
                                   8
                                                NaN
              Southern Metropolitan
                                                NaN
      top
      freq
                                3303
                                                NaN
                                 NaN
                                        7304.301889
     mean
                                        4392.989470
      std
                                 NaN
     min
                                 NaN
                                         249.000000
      25%
                                        4019.000000
                                 NaN
      50%
                                 NaN
                                        6482.000000
      75%
                                 NaN
                                        9704.000000
                                 NaN
                                       21650.000000
      max
[10]: # Run this commands to check for typos on categorical data
      unique_types_suburb = set(dfHousePrices['Suburb'].unique())
      unique_types_suburb
      unique_types_seller = set(dfHousePrices['Seller'].unique())
      unique_types_seller
      unique_types_council_area = set(dfHousePrices['CouncilArea'].unique())
      unique_types_council_area
      unique types region name = set(dfHousePrices['RegionName'].unique())
      unique_types_region_name
      unique_types_type = set(dfHousePrices['Type'].unique())
      unique_types_type
      # Fortunately, there are no typos and unique values are correct
[10]: {'h', 't', 'u'}
[11]: dfHousePrices.dtypes
[11]: Suburb
                        object
      Rooms
                         int64
                        object
      Type
      Price
                         int64
      Method
                        object
      Seller
                        object
      Distance
                       float64
      Postcode
                         int64
      Bedroom
                         int64
      Bathroom
                         int64
```

std

4548.807775

101.695480

30.162665

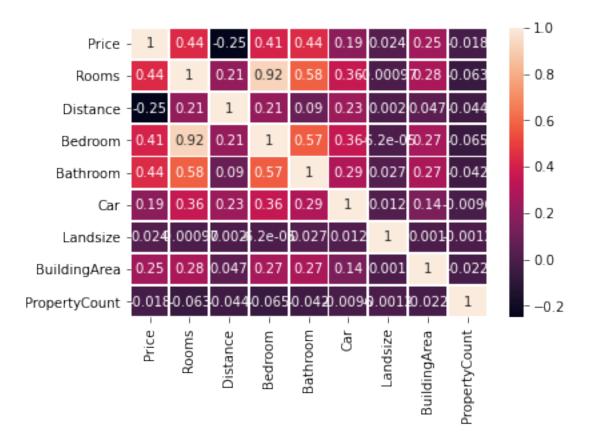
NaN

Car float64
Landsize int64
BuildingArea float64
YearBuilt float64
CouncilArea object
RegionName object
PropertyCount int64

dtype: object

1.3 Exploratory Data Analysis - 1st Part

[12]: <AxesSubplot:>

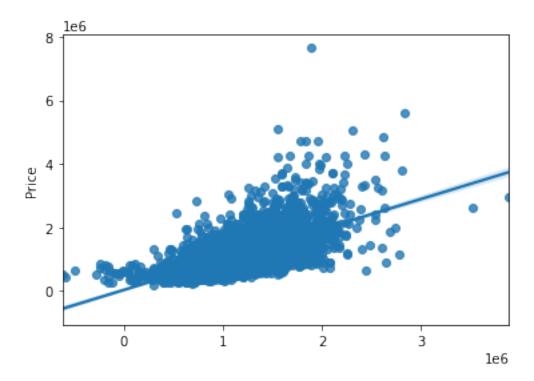


1.4 Build the model - 1st Part

```
[13]: X = dfHousePrices[['Rooms', 'Distance', 'Bathroom', 'Car', 'Landsize', Landsize']
       [14]: Y = dfHousePrices['Price']
[15]: from sklearn.model_selection import train_test_split
      X train, X test, y train, y test = train_test_split(X, Y, test_size=0.4, ____
      →random_state=101)
      print(X train.shape)
      print(X_test.shape)
      print(y train.shape)
      print(y_test.shape)
     (6163, 6)
     (4109, 6)
     (6163,)
     (4109,)
[16]: from sklearn.linear_model import LinearRegression
      model = LinearRegression()
      model.fit(X_train,y_train)
[16]: LinearRegression()
[17]: coeff_parameter = pd.DataFrame(model.coef_,X.columns,columns=['Coefficient'])
      coeff parameter
Γ17]:
                      Coefficient
      Rooms
                    236505.665574
     Distance
                    -43529.127991
     Bathroom
                    225562.279396
      Car
                     52646.923733
      Landsize
                         2.376645
      BuildingArea
                       531.643953
[18]: # Print the intercept
      print(model.intercept_)
     360564.808286401
[19]: predictions = model.predict(X_test)
      predictions
[19]: array([1591207.329957 , 1675408.08757592, 1520493.42450145, ...,
             1757506.19761488, 1099322.57289164, 1310125.88500423])
```

[20]: sns.regplot(x=predictions, y=y_test)

[20]: <AxesSubplot:ylabel='Price'>



```
[21]: import statsmodels.api as sm

X_train_Sm= sm.add_constant(X_train)

X_train_Sm= sm.add_constant(X_train)
ls=sm.OLS(y_train,X_train_Sm).fit()
print(ls.summary())
```

OLS Regression Results

| ======================================= | ====== | ======== | | | | ====== |
|---|--------|--------------|----------|--------------|--------|----------|
| Dep. Variable: | | Price | R-square | ed: | | 0.370 |
| Model: | | OLS | Adj. R-s | squared: | | 0.369 |
| Method: | L | east Squares | F-statis | stic: | | 601.6 |
| Date: | Sun, | 31 Jan 2021 | Prob (F- | -statistic): | | 0.00 |
| Time: | | 13:40:34 | Log-Like | elihood: | | -90039. |
| No. Observations: | | 6163 | AIC: | | 1 | .801e+05 |
| Df Residuals: | | 6156 | BIC: | | 1 | .801e+05 |
| Df Model: | | 6 | | | | |
| Covariance Type: | | nonrobust | | | | |
| | | | | | | |
| | coef | std err | t | P> t | [0.025 | 0.975] |

| const | 3.606e+05 | 2.59e+04 | 13.910 | 0.000 | 3.1e+05 | 4.11e+05 |
|---------------|------------|----------|----------|------------|----------|-----------|
| Rooms | 2.365e+05 | 9785.812 | 24.168 | 0.000 | 2.17e+05 | 2.56e+05 |
| Distance | -4.353e+04 | 1280.785 | -33.986 | 0.000 | -4.6e+04 | -4.1e+04 |
| Bathroom | 2.256e+05 | 1.2e+04 | 18.868 | 0.000 | 2.02e+05 | 2.49e+05 |
| Car | 5.265e+04 | 7333.730 | 7.179 | 0.000 | 3.83e+04 | 6.7e+04 |
| Landsize | 2.3766 | 1.175 | 2.023 | 0.043 | 0.074 | 4.679 |
| BuildingArea | 531.6440 | 61.678 | 8.620 | 0.000 | 410.733 | 652.555 |
| Omnibus: | | 3458.236 | Durbin-V | Watson: | | 1.971 |
| Prob(Omnibus) |): | 0.000 | Jarque-l | Bera (JB): | | 79899.249 |
| Skew: | | 2.217 | Prob(JB) |): | | 0.00 |
| Kurtosis: | | 20.073 | Cond. No | ο. | | 2.28e+04 |
| ========= | | ======== | ======== | | | ======= |

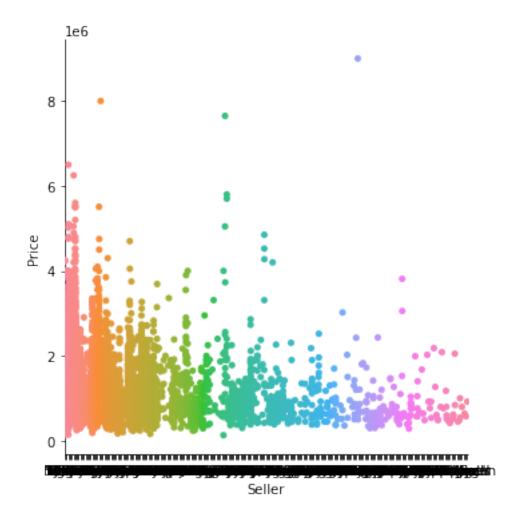
Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The condition number is large, 2.28e+04. This might indicate that there are strong multicollinearity or other numerical problems.

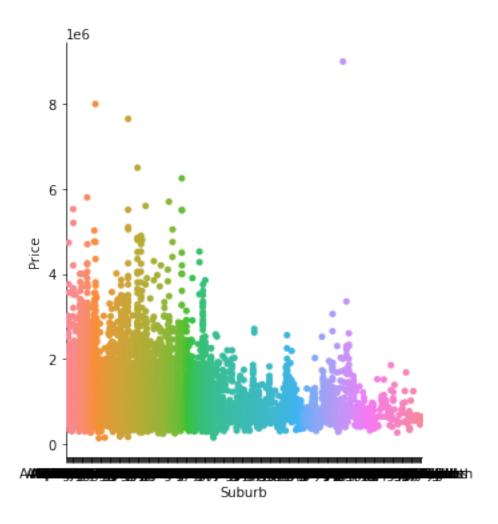
1.5 Exploratory Data Analysis - 2nd Part

```
[22]: sns.catplot(x="Seller", y="Price", data=dfHousePrices, height=5)
```

[22]: <seaborn.axisgrid.FacetGrid at 0x7f829bdd4970>

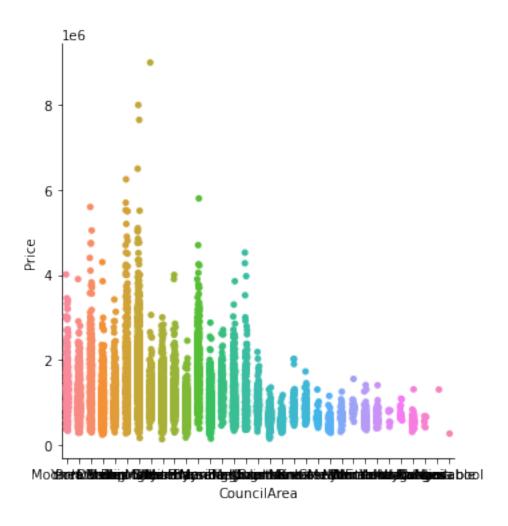


[23]: sns_plot = sns.catplot(x="Suburb", y="Price", data=dfHousePrices, height=5)
sns_plot.savefig("output.png")



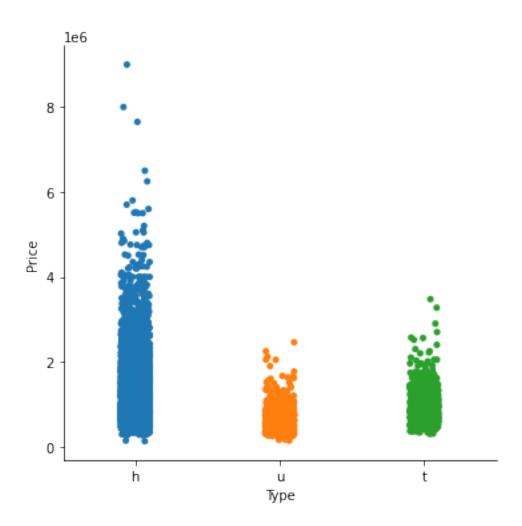
```
[24]: sns.catplot(x="CouncilArea", y="Price", data=dfHousePrices, height=5)
```

[24]: <seaborn.axisgrid.FacetGrid at 0x7f829be7a2b0>



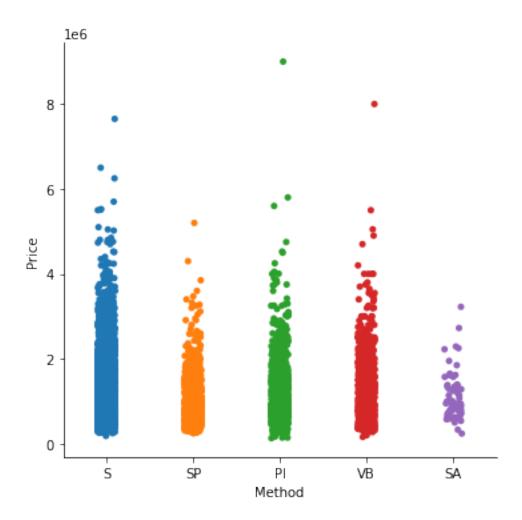
```
[25]: sns.catplot(x="Type", y="Price", data=dfHousePrices, height=5)
```

[25]: <seaborn.axisgrid.FacetGrid at 0x7f829fe0f130>



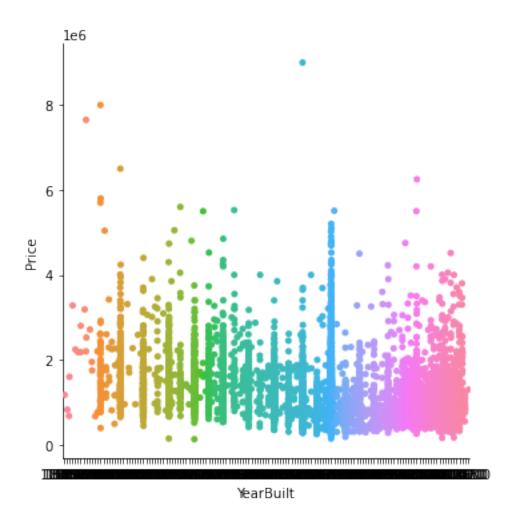
```
[26]: sns.catplot(x="Method", y="Price", data=dfHousePrices, height=5)
```

[26]: <seaborn.axisgrid.FacetGrid at 0x7f829cdbe790>



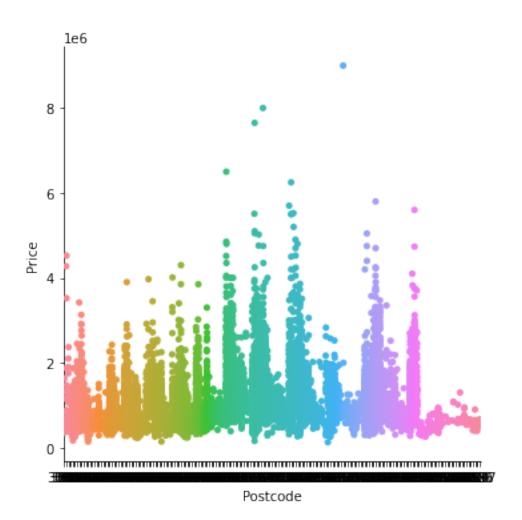
```
[27]: sns.catplot(x="YearBuilt", y="Price", data=dfHousePrices, height=5)
```

[27]: <seaborn.axisgrid.FacetGrid at 0x7f82a0a38310>



[28]: sns.catplot(x="Postcode", y="Price", data=dfHousePrices, height=5)

[28]: <seaborn.axisgrid.FacetGrid at 0x7f82a0a382b0>



```
[29]: #dfHousePrices['Suburb'] = dfHousePrices['Suburb'].astype('category')
#dfHousePrices['Type'] = dfHousePrices['Type'].astype('category')
#dfHousePrices['Method'] = dfHousePrices['Method'].astype('category')
#dfHousePrices['Seller'] = dfHousePrices['Seller'].astype('category')
#dfHousePrices['CouncilArea'] = dfHousePrices['CouncilArea'].astype('category')
#dfHousePrices['RegionName'] = dfHousePrices['RegionName'].astype('category')
```

1.6 Build the model - 2nd Part

```
[30]: # List independent variables

X = dfHousePrices[['Rooms', 'Distance', 'Bathroom', 'Car', 'Landsize',

→'BuildingArea', 'PropertyCount', 'Type', 'Method', 'Seller', 'CouncilArea',

→'RegionName']]

# Add dummy vars for cat vars

X = pd.get_dummies(data=X, drop_first=True)

# New dataframe

X.head()
```

```
[30]:
                Distance Bathroom Car Landsize BuildingArea PropertyCount \
         Rooms
      0
             2
                      2.5
                                       1.0
                                                  202
                                                               126.0
                                                                                4019
                                   1
                                       0.0
      1
              2
                      2.5
                                                  156
                                                                79.0
                                                                                4019
                                    1
      2
              3
                      2.5
                                   2
                                       0.0
                                                  134
                                                               150.0
                                                                                4019
      3
              3
                      2.5
                                   2
                                       1.0
                                                  94
                                                               126.0
                                                                                4019
      4
              4
                      2.5
                                       2.0
                                                  120
                                                               142.0
                                                                                4019
                          {\tt Method\_S}
         Type_t
                                     ... CouncilArea_Wyndham
                                                              CouncilArea_Yarra
                  Type_u
      0
                       0
               0
                                  1
                                                                                 1
               0
                       0
                                  1
                                                            0
      1
      2
                                                            0
               0
                       0
                                  0
                                                                                 1
      3
               0
                       0
                                  0
                                                            0
                                                                                 1
      4
               0
                       0
                                                             0
                                                                                 1
         CouncilArea_Yarra Ranges
                                     RegionName_Eastern Victoria
      0
      1
                                  0
                                                                  0
      2
                                  0
                                                                  0
      3
                                  0
                                                                  0
      4
                                  0
                                                                  0
         RegionName_Northern Metropolitan RegionName_Northern Victoria
      0
                                                                            0
      1
                                           1
      2
                                           1
                                                                            0
      3
                                           1
                                                                            0
      4
                                                                            0
         RegionName_South-Eastern Metropolitan RegionName_Southern Metropolitan
      0
                                                0
                                                                                      0
      1
      2
                                                0
                                                                                      0
      3
                                                0
                                                                                      0
      4
                                                0
                                                                                      0
         RegionName_Western Metropolitan RegionName_Western Victoria
      0
                                          0
                                                                          0
                                                                          0
      1
                                          0
      2
                                          0
                                                                          0
      3
                                                                          0
                                          0
                                          0
                                                                          0
      [5 rows x 288 columns]
[31]: # Dependent variable
      Y = dfHousePrices['Price']
      Y
```

```
[31]: 0
               1480000
               1035000
      2
               1465000
      3
                850000
               1600000
      4
      12206
               1050000
      12208
               1285000
      12210
                525300
      12211
                750000
      12212
               2450000
      Name: Price, Length: 10272, dtype: int64
[32]: # Create the test set
      X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.4,__
      →random_state=101)
      print(X_train.shape)
      print(X_test.shape)
      print(y_train.shape)
      print(y_test.shape)
     (6163, 288)
     (4109, 288)
     (6163,)
     (4109,)
[33]: # Perform the regression
      model = LinearRegression()
      model.fit(X_train,y_train)
[33]: LinearRegression()
[34]: # Print the intercept
      print(model.intercept_)
     595512.4755647061
[35]: # Print all other parameters
      coeff_parameter = pd.DataFrame(model.coef_,X.columns,columns=['Coefficient'])
      coeff_parameter
      coeff_parameter.to_csv (r'/Users/alejandrogleason/Downloads/Coefficents.csv ')
[36]: predictions = model.predict(X_test)
      predictions
[36]: array([1403836.26372661, 1325754.30293877, 1221592.32567192, ...,
             1564572.91262582, 940903.69314997, 1046661.74272207])
```

[37]: X_train_Sm= sm.add_constant(X_train) X_train_Sm= sm.add_constant(X_train) ls=sm.OLS(y_train,X_train_Sm).fit() print(ls.summary())

OLS Regression Results

| ======================================= | | .======= | | ======================================= |
|--|---|--|-----------------------------|--|
| Dep. Variable: Model: Method: Date: Time: No. Observations: Df Residuals: Df Model: Covariance Type: | OLS Least Squares Sun, 31 Jan 2021 13:41:18 6163 5912 250 | F-statisti Prob (F-st Log-Likeli AIC: | uared: ic: tatistic): | 0.647 0.632 43.38 0.00 -88251. 1.770e+05 1.787e+05 |
| P> t [0.025 | | coef | std err | t |
| const | | 5.955e+05 | 4.16e+05 | 1.432 |
| 0.152 -2.2e+05 Rooms | 1.41e+06 | 1.66e+05 | 8395.134 | 19.776 |
| 0.000 1.5e+05 Distance | 1.82e+05 | -4.078e+04 | 2538.180 | -16.069 |
| 0.000 -4.58e+04 | -3.58e+04 | | | |
| Bathroom 0.000 1.42e+05 | 1.8e+05 | 1.612e+05 | | |
| Car 0.000 4.21e+04 | 6.52e+04 | 5.364e+04 | 5894.641 | 9.099 |
| Landsize 0.068 -0.126 | 3.458 | 1.6659 | 0.914 | 1.822 |
| BuildingArea | | 370.5476 | 47.550 | 7.793 |
| PropertyCount | 463.764 | -1.7820 | 1.607 | -1.109 |
| 0.268 -4.933 Type_t | 1.369 | -3.535e+05 | 2e+04 | -17.699 |
| 0.000 -3.93e+05 Type_u | -3.14e+05 | -4.371e+05 | 1.81e+04 | -24.153 |
| 0.000 -4.73e+05 | -4.02e+05 | | | |
| Method_S 0.000 6.77e+04 | 1.36e+05 | 1.016e+05 | 1.73e+04 | 5.875 |
| Method_SA 0.204 -4.75e+04 | 2.23e+05 | 8.764e+04 | 6.9e+04 | 1.271 |
| Method_SP | | 5.968e+04 | 2.28e+04 | 2.612 |

| 0.000 4.40 .04 | 4 04 .05 | | | |
|-------------------------------|-----------|------------|----------|--------|
| 0.009 1.49e+04 | 1.04e+05 | 0 440 .04 | 0.4604 | 0.070 |
| Method_VB | 7 04 :04 | 2.413e+04 | 2.46e+04 | 0.979 |
| 0.328 -2.42e+04 | 7.24e+04 | 2 (0-104 | F 04-10F | 0.070 |
| Seller_ASL | 1 00-106 | 3.62e+04 | 5.04e+05 | 0.072 |
| 0.943 -9.52e+05 | 1.02e+06 | 0 1/1-105 | 4 61-105 | 1 000 |
| Seller_Abercromby's | 1 00-106 | 9.141e+05 | 4.61e+05 | 1.983 |
| 0.047 1.06e+04 | 1.82e+06 | -9.826e+04 | 5.82e+05 | -0.169 |
| Seller_Ace 0.866 -1.24e+06 | 1 0/0106 | -9.0200+04 | 5.020+05 | -0.169 |
| | 1.04e+06 | 1 7670105 | 4.27e+05 | -0.414 |
| Seller_Alexkarbon | 6 6-105 | -1.767e+05 | 4.276+05 | -0.414 |
| 0.679 -1.01e+06 | 6.6e+05 | 0 000- 00 | 6 00- 07 | 0.150 |
| Seller_Allens | 1 07- 06 | 9.008e-08 | 6.02e-07 | 0.150 |
| 0.881 -1.09e-06 | 1.27e-06 | 2 000-104 | F 04-10F | 0.000 |
| Seller_Anderson | 4 00 .00 | 3.008e+04 | 5.04e+05 | 0.060 |
| 0.952 -9.59e+05 | 1.02e+06 | 4 740 .05 | F 0F .0F | 0.040 |
| Seller_Appleby | 4 70 · 05 | -4.748e+05 | 5.85e+05 | -0.812 |
| 0.417 -1.62e+06 | 6.72e+05 | 0.504 .04 | F 00 .0F | 0.100 |
| Seller_Aquire | | -9.531e+04 | 5.88e+05 | -0.162 |
| 0.871 -1.25e+06 | 1.06e+06 | | | |
| Seller_Ascend | | -7.818e+04 | 5.82e+05 | -0.134 |
| 0.893 -1.22e+06 | 1.06e+06 | | | |
| Seller_Ash | | -1.759e-07 | 3.03e-06 | -0.058 |
| 0.954 -6.12e-06 | 5.77e-06 | | | |
| Seller_Asset | | 4080.7008 | 5.87e+05 | 0.007 |
| 0.994 -1.15e+06 | 1.16e+06 | | | |
| Seller_Assisi | | 3.405e-07 | 1.53e-06 | 0.222 |
| 0.824 -2.66e-06 | 3.34e-06 | | | |
| Seller_Australian | | -2.313e+05 | 5.83e+05 | -0.397 |
| 0.691 -1.37e+06 | 9.11e+05 | | | |
| Seller_Barlow | | 6.609e+04 | 4.31e+05 | 0.154 |
| 0.878 -7.78e+05 | 9.1e+05 | | | |
| Seller_Barry | | -8.681e+04 | 4.13e+05 | -0.210 |
| 0.833 -8.96e+05 | 7.22e+05 | | | |
| Seller_Bayside | | -2.988e+04 | 5.05e+05 | -0.059 |
| 0.953 -1.02e+06 | 9.6e+05 | | | |
| Seller_Bekdon | | -1.788e+05 | 4.41e+05 | -0.405 |
| 0.685 -1.04e+06 | 6.86e+05 | | | |
| Seller_Beller | | -4.624e+05 | 4.46e+05 | -1.038 |
| 0.299 -1.34e+06 | 4.11e+05 | | | |
| Seller_Bells | | -8939.5364 | 4.21e+05 | -0.021 |
| 0.983 -8.35e+05 | 8.17e+05 | | | |
| Seller_Better | | -1.987e+05 | 5.82e+05 | -0.342 |
| 0.733 -1.34e+06 | 9.42e+05 | | | |
| Seller_Biggin | | -8.958e+04 | 4.14e+05 | -0.216 |
| 0.829 -9.01e+05 | 7.22e+05 | | | |
| Seller_Blue | | 6.719e+05 | 5.82e+05 | 1.155 |
| 0.248 -4.69e+05 | 1.81e+06 | | | |
| Seller_Bowman | | 5.403e+04 | 5.87e+05 | 0.092 |
| | | | | |

| 0.927 -1.1e+06 | 1.21e+06 | | | |
|--------------------|----------|------------|----------|--------|
| Seller_Brace | 1.210.00 | -1.575e+05 | 5.82e+05 | -0.271 |
| 0.787 -1.3e+06 | 9.83e+05 | | | |
| Seller_Brad | | -5.527e+04 | 4.14e+05 | -0.134 |
| 0.894 -8.66e+05 | 7.56e+05 | | | |
| Seller_Buckingham | | -4.739e+04 | 4.23e+05 | -0.112 |
| 0.911 -8.77e+05 | 7.82e+05 | | | |
| Seller_Bullen | | 1.858e+05 | 5.82e+05 | 0.319 |
| 0.749 -9.55e+05 | 1.33e+06 | | | |
| Seller_Burnham | | 6.289e+04 | 4.23e+05 | 0.149 |
| 0.882 -7.67e+05 | 8.93e+05 | | | |
| Seller_Buxton | | -1.01e+05 | 4.13e+05 | -0.244 |
| 0.807 -9.12e+05 | 7.1e+05 | | | |
| Seller_Buxton/Find | | 1.396e+05 | 5.83e+05 | 0.239 |
| 0.811 -1e+06 | 1.28e+06 | | | |
| Seller_C21 | | -4.596e+04 | 4.21e+05 | -0.109 |
| 0.913 -8.72e+05 | 7.8e+05 | | | |
| Seller_Caine | | 9.009e+05 | 4.52e+05 | 1.992 |
| 0.046 1.45e+04 | 1.79e+06 | | | |
| Seller_Calder | | 4.404e+04 | 5.82e+05 | 0.076 |
| 0.940 -1.1e+06 | 1.18e+06 | | | |
| Seller_Carter | | -7.291e+04 | 4.8e+05 | -0.152 |
| 0.879 -1.01e+06 | 8.68e+05 | | | |
| Seller_Castran | | 7.693e+05 | 4.35e+05 | 1.769 |
| 0.077 -8.34e+04 | 1.62e+06 | | | |
| Seller_Cayzer | | 2.051e+04 | 4.26e+05 | 0.048 |
| 0.962 -8.14e+05 | 8.55e+05 | | | |
| Seller_Century | | -9.898e-08 | 7.98e-07 | -0.124 |
| 0.901 -1.66e-06 | 1.47e-06 | | | |
| Seller_Chambers | | -8.403e+04 | 4.45e+05 | -0.189 |
| 0.850 -9.57e+05 | 7.89e+05 | | | |
| Seller_Changing | | -1.99e+05 | 5.83e+05 | -0.342 |
| 0.733 -1.34e+06 | 9.43e+05 | | | |
| Seller_Charlton | | -9.49e+04 | 4.76e+05 | -0.199 |
| 0.842 -1.03e+06 | 8.39e+05 | | | |
| Seller_Chisholm | | -8.553e+04 | 4.2e+05 | -0.204 |
| 0.839 -9.08e+05 | 7.37e+05 | | | |
| Seller_Christopher | | -2.187e+05 | 4.61e+05 | -0.474 |
| 0.635 -1.12e+06 | 6.85e+05 | | | |
| Seller_Clairmont | | 1.745e-07 | 8.61e-07 | 0.203 |
| 0.840 -1.51e-06 | 1.86e-06 | | | |
| Seller_Collins | | 1.403e+05 | 4.22e+05 | 0.333 |
| 0.739 -6.87e+05 | 9.67e+05 | 4400 0000 | 5 05 .05 | 0 000 |
| Seller_Community | 4.4500 | -4188.8962 | 5.87e+05 | -0.007 |
| 0.994 -1.16e+06 | 1.15e+06 | 0.0005 | F 00 :05 | 0 510 |
| Seller_Compton | 0.0005 | -3.02e+05 | 5.82e+05 | -0.519 |
| 0.604 -1.44e+06 | 8.39e+05 | 0004 0050 | E 00-105 | 0 004 |
| Seller_Conquest | | 2084.0956 | 5.82e+05 | 0.004 |

| 0.997 -1.14e+06 | 1.14e+06 | | | |
|----------------------|-----------|------------|----------|--------|
| Seller_Considine | 11110.00 | -1.581e+05 | 4.33e+05 | -0.366 |
| 0.715 -1.01e+06 | 6.9e+05 | | | |
| Seller_Coventry | | -5.226e+05 | 5.82e+05 | -0.897 |
| 0.369 -1.66e+06 | 6.19e+05 | | | |
| Seller_Craig | | 6.391e+04 | 5.82e+05 | 0.110 |
| 0.913 -1.08e+06 | 1.2e+06 | | | |
| Seller_Crane | | -2.36e+05 | 5.81e+05 | -0.406 |
| 0.685 -1.37e+06 | 9.03e+05 | | | |
| Seller_D'Aprano | | -4.738e+04 | 4.61e+05 | -0.103 |
| 0.918 -9.5e+05 | 8.56e+05 | | | |
| Seller_Daniel | | -6.407e-08 | 1.29e-07 | -0.497 |
| 0.619 -3.17e-07 | 1.88e-07 | | | |
| Seller_Darren | | 5.08e+04 | 4.25e+05 | 0.119 |
| 0.905 -7.83e+05 | 8.84e+05 | | | |
| Seller_David | | -1.798e+05 | 5.82e+05 | -0.309 |
| 0.757 -1.32e+06 | 9.61e+05 | | | |
| Seller_Del | | -8.312e+04 | 5.07e+05 | -0.164 |
| 0.870 -1.08e+06 | 9.12e+05 | | | |
| Seller_Dingle | | -2.287e+05 | 4.38e+05 | -0.522 |
| 0.601 -1.09e+06 | 6.29e+05 | | | |
| Seller_Dixon | | -1.125e-07 | 3.82e-06 | -0.029 |
| 0.977 -7.61e-06 | 7.38e-06 | | | |
| Seller_Domain | | -4.771e+05 | 5.04e+05 | -0.946 |
| 0.344 -1.47e+06 | 5.12e+05 | | | |
| Seller_Douglas | | -5.119e+04 | 4.17e+05 | -0.123 |
| 0.902 -8.69e+05 | 7.66e+05 | | | |
| Seller_Edward | | -1.643e+05 | 4.38e+05 | -0.375 |
| 0.708 -1.02e+06 | 6.94e+05 | | | |
| Seller_Elite | | 7.327e+05 | 5.82e+05 | 1.260 |
| 0.208 -4.07e+05 | 1.87e+06 | | | |
| Seller_Eview | | -5.592e+04 | 4.2e+05 | -0.133 |
| 0.894 -8.79e+05 | 7.67e+05 | | | |
| Seller_FN | | -1.28e+05 | 4.37e+05 | -0.293 |
| 0.770 -9.85e+05 | 7.29e+05 | | | |
| Seller_First | | -6.039e+04 | 4.76e+05 | -0.127 |
| 0.899 -9.93e+05 | 8.72e+05 | | | |
| Seller_Fletchers | T 04 : 05 | -2.11e+04 | 4.14e+05 | -0.051 |
| 0.959 -8.33e+05 | 7.91e+05 | 4 440 07 | 4 00 00 | 0.400 |
| Seller_Fletchers/One | | -1.149e-07 | 1.06e-06 | -0.109 |
| 0.913 -2.19e-06 | 1.96e-06 | 0.045 .04 | 4 00 .05 | 0.007 |
| Seller_Frank | 0.0405 | 8.815e+04 | 4.26e+05 | 0.207 |
| 0.836 -7.47e+05 | 9.24e+05 | 4 005 104 | F 04 .0F | 0.040 |
| Seller_Free | 4 44 .00 | -1.025e+04 | 5.84e+05 | -0.018 |
| 0.986 -1.16e+06 | 1.14e+06 | 0 000-104 | 4 22-LOF | 0.067 |
| Seller_GL | 9 20105 | -2.892e+04 | 4.33e+05 | -0.067 |
| 0.947 -8.78e+05 | 8.2e+05 | _2 770~+04 | E 90~+0E | _0 065 |
| Seller_Gardiner | | -3.772e+04 | 5.82e+05 | -0.065 |

| 0.948 -1.18e+06 | 1.1e+06 | | | |
|-----------------------------------|----------|------------|----------|--------|
| Seller_Garvey | 4.000 | 6.157e+04 | 5.81e+05 | 0.106 |
| 0.916 -1.08e+06 | 1.2e+06 | 4.44005 | 4 40 .05 | 0.000 |
| Seller_Gary | 7 00 .05 | -1.118e+05 | 4.16e+05 | -0.269 |
| 0.788 -9.27e+05 | 7.03e+05 | 4 044 00 | 4.46.06 | 0.040 |
| Seller_Grantham | 0.00.00 | -1.341e-08 | 1.16e-06 | -0.012 |
| 0.991 -2.29e-06 | 2.26e-06 | 4 470-105 | 4 45-105 | 0.255 |
| Seller_Greg | 0 60-105 | 1.476e+05 | 4.15e+05 | 0.355 |
| 0.722 -6.66e+05 | 9.62e+05 | -1.272e+04 | 4.46e+05 | -0.028 |
| Seller_Gunn&Co 0.977 -8.88e+05 | 8.62e+05 | -1.2720+04 | 4.400+05 | -0.026 |
| | 0.02e+05 | -9.269e+04 | 4.25e+05 | -0.218 |
| Seller_HAR 0.827 -9.25e+05 | 7.4e+05 | -9.2090+04 | 4.256+05 | -0.210 |
| Seller_Hall | 7.46+05 | 1.403e+06 | 4.54e+05 | 3.093 |
| 0.002 5.14e+05 | 2.29e+06 | 1.4036+00 | 4.046+00 | 3.093 |
| Seller_Ham | 2.296+00 | 5.909e+04 | 5.83e+05 | 0.101 |
| 0.919 -1.08e+06 | 1.2e+06 | 3.3036104 | 5.65e+05 | 0.101 |
| Seller_Harcourts | 1.26.00 | -1.145e+05 | 4.15e+05 | -0.276 |
| 0.783 -9.28e+05 | 7e+05 | 1.1406.00 | 4.106.00 | 0.210 |
| Seller_Harrington | 76103 | -2.189e+05 | 4.31e+05 | -0.508 |
| 0.611 -1.06e+06 | 6.26e+05 | 2.1056.00 | 4.016.00 | 0.000 |
| Seller_Haughton | 0.200.00 | -2.551e+05 | 4.27e+05 | -0.598 |
| 0.550 -1.09e+06 | 5.81e+05 | 2.0010.00 | 1.270.00 | 0.000 |
| Seller_Hayeswinckle | 0.010.00 | -1.838e+05 | 5.83e+05 | -0.315 |
| 0.753 -1.33e+06 | 9.6e+05 | 1,0000,00 | 0.000 | 0.010 |
| Seller_Hodges | 0.00 | -9.753e+04 | 4.16e+05 | -0.235 |
| 0.815 -9.13e+05 | 7.18e+05 | 011000101 | 11100100 | 0.200 |
| Seller_Holland | | -2.18e+05 | 4.76e+05 | -0.458 |
| 0.647 -1.15e+06 | 7.14e+05 | | | |
| Seller_Homes | | -1.567e+05 | 5.81e+05 | -0.269 |
| 0.788 -1.3e+06 | 9.83e+05 | | | |
| Seller_Hooper | | 3.628e+05 | 5.04e+05 | 0.720 |
| 0.472 -6.25e+05 | 1.35e+06 | | | |
| Seller_Hoskins | | 1.119e+04 | 4.77e+05 | 0.023 |
| 0.981 -9.25e+05 | 9.47e+05 | | | |
| Seller_Hunter | | -1.252e+05 | 4.53e+05 | -0.277 |
| 0.782 -1.01e+06 | 7.62e+05 | | | |
| Seller_Iconek | | -1.684e+04 | 4.78e+05 | -0.035 |
| 0.972 -9.53e+05 | 9.19e+05 | | | |
| Seller_J | | -1.636e+05 | 4.41e+05 | -0.371 |
| 0.711 -1.03e+06 | 7.01e+05 | | | |
| Seller_JMRE | | -2.455e+05 | 5.05e+05 | -0.486 |
| 0.627 -1.24e+06 | 7.45e+05 | | | |
| Seller_JRW | | -2.774e-08 | 7.58e-07 | -0.037 |
| 0.971 -1.51e-06 | 1.46e-06 | | | |
| Seller_Jas | | 2.656e+04 | 4.15e+05 | 0.064 |
| 0.949 -7.87e+05 | 8.41e+05 | | | |
| Seller_Jason | | 5.584e+04 | 4.43e+05 | 0.126 |

| 0.900 -8.12e+05 | 9.24e+05 | 0. 707-104 | 4 49-105 | 0.010 |
|----------------------------------|----------|------------|-----------|--------|
| Seller_Jellis 0.832 -7.22e+05 | 8.97e+05 | 8.767e+04 | 4.13e+05 | 0.212 |
| Seller_Jim | 0.97e+03 | 3.244e+05 | 5.93e+05 | 0.547 |
| 0.584 -8.38e+05 | 1.49e+06 | 0.2116.00 | 0.556.05 | 0.041 |
| Seller_Joe | 1.100.00 | 4.831e-07 | 8.95e-07 | 0.540 |
| 0.589 -1.27e-06 | 2.24e-06 | | | |
| Seller_Johnston | | -7.017e+05 | 5.81e+05 | -1.207 |
| 0.227 -1.84e+06 | 4.38e+05 | | | |
| Seller_Kay | | 4.201e+05 | 4.17e+05 | 1.008 |
| 0.313 -3.97e+05 | 1.24e+06 | | | |
| Seller_Kaye | | -2.366e-07 | 3.01e-06 | -0.079 |
| 0.937 -6.14e-06 | 5.66e-06 | | | |
| Seller_Keatings | | 2.148e-07 | 1.19e-06 | 0.181 |
| 0.857 -2.11e-06 | 2.54e-06 | | | |
| Seller_Kelly | | 1.05e+06 | 5.82e+05 | 1.805 |
| 0.071 -9.04e+04 | 2.19e+06 | | | |
| Seller_Ken | | -1.542e+04 | 5.06e+05 | -0.030 |
| 0.976 -1.01e+06 | 9.77e+05 | 0.05405 | 4 05 .05 | |
| Seller_LITTLE | F 0F .0F | -3.071e+05 | 4.25e+05 | -0.723 |
| 0.470 -1.14e+06 | 5.25e+05 | 2 207-104 | 4 00-105 | 0.070 |
| Seller_LJ 0.938 -8.69e+05 | 8.02e+05 | -3.327e+04 | 4.26e+05 | -0.078 |
| Seller_LLC | 0.02e+05 | 5.528e+05 | 5.85e+05 | 0.945 |
| 0.345 -5.94e+05 | 1.7e+06 | 3.520e+05 | 5.65e+05 | 0.943 |
| Seller_Langwell | 1.76.00 | -5.586e+05 | 5.82e+05 | -0.960 |
| 0.337 -1.7e+06 | 5.82e+05 | 0.0000.00 | 0.020.00 | 0.500 |
| Seller_Leading | 0.020.00 | -1.288e+04 | 5.05e+05 | -0.026 |
| 0.980 -1e+06 | 9.77e+05 | 212000 01 | | 0.020 |
| Seller_Leased | | 5.051e+04 | 5.81e+05 | 0.087 |
| 0.931 -1.09e+06 | 1.19e+06 | | | |
| Seller_Leeburn | | 4.909e+05 | 5.05e+05 | 0.973 |
| 0.331 -4.98e+05 | 1.48e+06 | | | |
| Seller_Leyton | | -6.374e-08 | 3.85e-06 | -0.017 |
| 0.987 -7.61e-06 | 7.48e-06 | | | |
| Seller_Lindellas | | 6.603e+05 | 4.38e+05 | 1.508 |
| 0.132 -1.98e+05 | 1.52e+06 | | | |
| Seller_Love | | -1.052e+05 | 4.17e+05 | -0.253 |
| 0.801 -9.22e+05 | 7.11e+05 | | | |
| Seller_Lucas | | 3.264e+05 | 5.82e+05 | 0.560 |
| 0.575 -8.15e+05 | 1.47e+06 | | | |
| Seller_Luxton | | -1.105e+05 | 5.81e+05 | -0.190 |
| 0.849 -1.25e+06 | 1.03e+06 | | | |
| Seller_M.J | | 6.247e-09 | 5.05e-07 | 0.012 |
| 0.990 -9.83e-07 | 9.95e-07 | | | |
| Seller_MICM | 0 50 55 | -2.098e+05 | 4.53e+05 | -0.463 |
| 0.643 -1.1e+06 | 6.79e+05 | 0.044 | E 04 : 05 | 0 44- |
| Seller_Maddison | | -2.244e+05 | 5.04e+05 | -0.445 |

| 0.656 -1.21e+06 | 7.64e+05 | | | |
|-------------------|----------|------------|----------|--------|
| Seller_Mandy | 7.046.03 | -1.894e+05 | 5.05e+05 | -0.375 |
| 0.708 -1.18e+06 | 8.01e+05 | 1.0010.00 | 0.000.00 | 0.070 |
| Seller_Marshall | 0.010.00 | 2.492e+05 | 4.13e+05 | 0.603 |
| 0.547 -5.61e+05 | 1.06e+06 | 2.1020.00 | 1.100.00 | 0.000 |
| Seller_Mason | 1.000.00 | -5.829e+05 | 5.13e+05 | -1.137 |
| 0.255 -1.59e+06 | 4.22e+05 | 0.0200.00 | 0.100.00 | 1.101 |
| Seller_Matthew | 1.220.00 | -2.842e+04 | 5.05e+05 | -0.056 |
| 0.955 -1.02e+06 | 9.61e+05 | 2.0120 01 | | 0.000 |
| Seller_Max | 0.020 00 | 1.499e+05 | 5.08e+05 | 0.295 |
| 0.768 -8.45e+05 | 1.15e+06 | | | |
| Seller_McDonald | | 3.75e+04 | 4.24e+05 | 0.089 |
| 0.929 -7.93e+05 | 8.68e+05 | | | |
| Seller_McGrath | | 9396.4741 | 4.15e+05 | 0.023 |
| 0.982 -8.04e+05 | 8.22e+05 | | | |
| Seller_McLennan | | 4.241e+05 | 5.88e+05 | 0.721 |
| 0.471 -7.28e+05 | 1.58e+06 | | | |
| Seller_Melbourne | | 2.281e+05 | 4.51e+05 | 0.505 |
| 0.613 -6.57e+05 | 1.11e+06 | | | |
| Seller_Metro | | -1.141e+05 | 5.87e+05 | -0.194 |
| 0.846 -1.26e+06 | 1.04e+06 | | | |
| Seller_Miles | | 7.806e+04 | 4.16e+05 | 0.188 |
| 0.851 -7.37e+05 | 8.93e+05 | | | |
| Seller_Millership | | -3.988e+04 | 4.63e+05 | -0.086 |
| 0.931 -9.47e+05 | 8.67e+05 | | | |
| Seller_Mindacom | | 4.292e+05 | 6.08e+05 | 0.706 |
| 0.480 -7.63e+05 | 1.62e+06 | | | |
| Seller_Mitchell | | 4.446e+05 | 5.83e+05 | 0.762 |
| 0.446 -6.99e+05 | 1.59e+06 | | | |
| Seller_Moonee | | -2.482e+05 | 4.22e+05 | -0.588 |
| 0.556 -1.08e+06 | 5.79e+05 | | | |
| Seller_Morleys | | -4.431e+05 | 5.82e+05 | -0.761 |
| 0.447 -1.58e+06 | 6.98e+05 | | | |
| Seller_Morrison | | -8.076e+04 | 4.3e+05 | -0.188 |
| 0.851 -9.24e+05 | 7.63e+05 | | | |
| Seller_Naison | | 1.314e-07 | 1.05e-06 | 0.125 |
| 0.901 -1.93e-06 | 2.19e-06 | | | |
| Seller_Nardella | | -4.181e+05 | 5.82e+05 | -0.718 |
| 0.473 -1.56e+06 | 7.24e+05 | | | |
| Seller_Nelson | | -3.811e+04 | 4.13e+05 | -0.092 |
| 0.926 -8.47e+05 | 7.71e+05 | | | |
| Seller_New | | -2.107e+05 | 5.82e+05 | -0.362 |
| 0.717 -1.35e+06 | 9.3e+05 | | | |
| Seller_Nguyen | | 1.92e-07 | 9.46e-07 | 0.203 |
| 0.839 -1.66e-06 | 2.05e-06 | | | |
| Seller_Nicholls | | -2.438e+05 | 5.95e+05 | -0.410 |
| 0.682 -1.41e+06 | 9.23e+05 | | | |
| Seller_Nicholson | | -1.449e+05 | 5.04e+05 | -0.288 |
| | | | | |

| | 8.43e+05 | | | |
|--|--|--|--|---|
| 0.774 -1.13e+06 Seller_Nick | 0.100.00 | 1.346e+05 | 4.25e+05 | 0.317 |
| 0.751 -6.98e+05 | 9.67e+05 | | | |
| Seller_Noel | | -9.946e+04 | 4.15e+05 | -0.240 |
| 0.811 -9.13e+05 | 7.14e+05 | | | |
| Seller_North | | 2.059e+05 | 5.81e+05 | 0.354 |
| 0.723 -9.34e+05 | 1.35e+06 | | | |
| Seller_O'Brien | | 1.854e+04 | 4.23e+05 | 0.044 |
| 0.965 -8.1e+05 | 8.47e+05 | | | |
| Seller_O'Donoghues | | -9.175e+04 | 4.41e+05 | -0.208 |
| 0.835 -9.56e+05 | 7.73e+05 | | | |
| Seller_Oak | | 8.476e+04 | 5.83e+05 | 0.145 |
| 0.884 -1.06e+06 | 1.23e+06 | | | |
| Seller_Obrien | | 2.472e+05 | 4.78e+05 | 0.517 |
| 0.605 -6.89e+05 | 1.18e+06 | | | |
| Seller_One | | -5.586e+04 | 4.75e+05 | -0.118 |
| 0.906 -9.86e+05 | 8.75e+05 | | | |
| Seller_Only | | 2.397e+05 | 5.18e+05 | 0.463 |
| 0.643 -7.75e+05 | 1.25e+06 | | | |
| Seller_Oriental | | -1.216e+05 | 5.83e+05 | -0.209 |
| 0.835 -1.26e+06 | 1.02e+06 | | | |
| Seller_Owen | | 3.396e-07 | 1.99e-06 | 0.171 |
| 0.865 -3.56e-06 | 4.24e-06 | | | |
| Seller_PRDNationwide |) | 1.506e+05 | 4.86e+05 | 0.310 |
| 0.756 -8.01e+05 | 1.1e+06 | | | |
| Seller_Pagan | | -1.564e+05 | 4.52e+05 | -0.346 |
| 0.729 -1.04e+06 | 7.3e+05 | | | |
| | | 0 054 .04 | | |
| Seller_Parkes | | -3.254e+04 | 4.76e+05 | -0.068 |
| 0.946 -9.67e+05 | 9.02e+05 | -3.254e+04 | | |
| 0.946 -9.67e+05 Seller_Parkinson | | -3.254e+04 -2.669e+05 | 4.76e+05 5.82e+05 | -0.068 -0.458 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 | 9.02e+05 8.75e+05 | -2.669e+05 | 5.82e+05 | -0.458 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul | 8.75e+05 | | | |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 | | -2.669e+05 9.33e+04 | 5.82e+05 4.52e+05 | -0.458 0.207 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake | 8.75e+05 9.78e+05 | -2.669e+05 | 5.82e+05 | -0.458 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 | 8.75e+05 | -2.669e+05 9.33e+04 -3.839e-07 | 5.82e+05 4.52e+05 1.66e-06 | -0.458 0.207 -0.232 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter | 8.75e+05 9.78e+05 2.87e-06 | -2.669e+05 9.33e+04 | 5.82e+05 4.52e+05 | -0.458 0.207 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 | 8.75e+05 9.78e+05 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 | -0.458 0.207 -0.232 -0.229 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 | -2.669e+05 9.33e+04 -3.839e-07 | 5.82e+05 4.52e+05 1.66e-06 | -0.458 0.207 -0.232 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 | 8.75e+05 9.78e+05 2.87e-06 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 | -0.458 0.207 -0.232 -0.229 -0.112 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 | -0.458 0.207 -0.232 -0.229 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 -1.35e+05 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 4.61e+05 | -0.458 0.207 -0.232 -0.229 -0.112 -0.293 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 Seller_Prime | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 7.69e+05 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 | -0.458 0.207 -0.232 -0.229 -0.112 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 Seller_Prime 0.747 -1.4e-06 | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 7.69e+05 1.96e-06 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 -1.35e+05 2.769e-07 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 4.61e+05 8.57e-07 | -0.458 0.207 -0.232 -0.229 -0.112 -0.293 0.323 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 Seller_Prime 0.747 -1.4e-06 Seller_Private/Tierr | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 7.69e+05 1.96e-06 tan's | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 -1.35e+05 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 4.61e+05 | -0.458 0.207 -0.232 -0.229 -0.112 -0.293 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 Seller_Prime 0.747 -1.4e-06 Seller_Private/Tierr 0.883 -1.05e+06 | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 7.69e+05 1.96e-06 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 -1.35e+05 2.769e-07 8.567e+04 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 4.61e+05 8.57e-07 5.82e+05 | -0.458 0.207 -0.232 -0.229 -0.112 -0.293 0.323 0.147 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 Seller_Prime 0.747 -1.4e-06 Seller_Private/Tierr 0.883 -1.05e+06 Seller_Prof. | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 7.69e+05 1.96e-06 tan's 1.23e+06 | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 -1.35e+05 2.769e-07 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 4.61e+05 8.57e-07 | -0.458 0.207 -0.232 -0.229 -0.112 -0.293 0.323 |
| 0.946 -9.67e+05 Seller_Parkinson 0.647 -1.41e+06 Seller_Paul 0.836 -7.92e+05 Seller_Peake 0.817 -3.63e-06 Seller_Peter 0.819 -9.4e+05 Seller_Philip 0.911 -8.72e+05 Seller_Pride 0.770 -1.04e+06 Seller_Prime 0.747 -1.4e-06 Seller_Private/Tierr 0.883 -1.05e+06 | 8.75e+05 9.78e+05 2.87e-06 7.44e+05 7.78e+05 7.69e+05 1.96e-06 tan's | -2.669e+05 9.33e+04 -3.839e-07 -9.821e+04 -4.709e+04 -1.35e+05 2.769e-07 8.567e+04 | 5.82e+05 4.52e+05 1.66e-06 4.29e+05 4.21e+05 4.61e+05 8.57e-07 5.82e+05 | -0.458 0.207 -0.232 -0.229 -0.112 -0.293 0.323 0.147 |

| 0.959 -1.17e+06 | 1.11e+06 | | | |
|---------------------|---|------------|----------|--------|
| Seller_Propertyau | 1.110.00 | 1.969e-07 | 2.99e-07 | 0.658 |
| 0.510 -3.9e-07 | 7.83e-07 | 1.0000 | 2.000 01 | 0.000 |
| Seller_Purplebricks | , | -1.286e+05 | 4.22e+05 | -0.305 |
| 0.760 -9.55e+05 | 6.98e+05 | 1,2000 00 | 11220 00 | 0.000 |
| Seller_R&H | | -2.146e-08 | 3.82e-07 | -0.056 |
| 0.955 -7.71e-07 | 7.28e-07 | | | |
| Seller_RE | | 1.033e+05 | 5.04e+05 | 0.205 |
| 0.838 -8.85e+05 | 1.09e+06 | | | |
| Seller_REMAX | | 4.648e+04 | 5.1e+05 | 0.091 |
| 0.927 -9.53e+05 | 1.05e+06 | | | |
| Seller_RT | | 1.606e+05 | 4.15e+05 | 0.387 |
| 0.699 -6.54e+05 | 9.75e+05 | | | |
| Seller_RW | | -5.979e+04 | 4.18e+05 | -0.143 |
| 0.886 -8.79e+05 | 7.59e+05 | | | |
| Seller_Raine | | -1.144e+05 | 4.16e+05 | -0.275 |
| 0.783 -9.29e+05 | 7e+05 | | | |
| Seller_Raine&Horne | | -6.804e+05 | 5.83e+05 | -1.168 |
| 0.243 -1.82e+06 | 4.62e+05 | | | |
| Seller_Ray | | -1.338e+05 | 4.13e+05 | -0.324 |
| 0.746 -9.43e+05 | 6.75e+05 | | | |
| Seller_Re | | -2.796e+05 | 5.04e+05 | -0.554 |
| 0.579 -1.27e+06 | 7.09e+05 | | | |
| Seller_Real | | 4.349e+05 | 5.82e+05 | 0.748 |
| 0.455 -7.05e+05 | 1.58e+06 | | | |
| Seller_Red | | 4.221e+05 | 5.05e+05 | 0.837 |
| 0.403 -5.67e+05 | 1.41e+06 | | | |
| Seller_Redina | | 1.078e+05 | 5.82e+05 | 0.185 |
| 0.853 -1.03e+06 | 1.25e+06 | | | |
| Seller_Reed | | 6.795e-08 | 5.99e-07 | 0.113 |
| 0.910 -1.11e-06 | 1.24e-06 | | | |
| Seller_Reliance | | 4.557e+04 | 5.09e+05 | 0.089 |
| 0.929 -9.53e+05 | 1.04e+06 | | | |
| Seller_Rendina | | -3.359e+04 | 4.2e+05 | -0.080 |
| 0.936 -8.58e+05 | 7.9e+05 | | | |
| Seller_Ristic | | -9.754e+04 | 5.06e+05 | -0.193 |
| 0.847 -1.09e+06 | 8.94e+05 | | | |
| Seller_Rodney | | -5.057e+05 | 4.76e+05 | -1.062 |
| 0.288 -1.44e+06 | 4.28e+05 | | | |
| Seller_Ross | | -1.46e+06 | 5.83e+05 | -2.502 |
| 0.012 -2.6e+06 | -3.16e+05 | | | |
| Seller_Rounds | 5 .05 | -4.439e+05 | 5.83e+05 | -0.761 |
| 0.447 -1.59e+06 | 7e+05 | 4 805 .05 | 5 04 .05 | |
| Seller_Ryder | 0.0005 | -1.765e+05 | 5.94e+05 | -0.297 |
| 0.766 -1.34e+06 | 9.88e+05 | 4 000 .04 | 4 50 .05 | 0 040 |
| Seller_S&L | 0 6705 | -1.828e+04 | 4.52e+05 | -0.040 |
| 0.968 -9.04e+05 | 8.67e+05 | 2 005-105 | E 05-105 | 0.000 |
| Seller_Schroeder | | 3.995e+05 | 5.85e+05 | 0.683 |

| 0.494 -7.46e+05 | 1.55e+06 | | | |
|---------------------|----------|------------|----------|--------|
| Seller_Scott | 1.000.00 | -7.011e-09 | 1.67e-08 | -0.420 |
| 0.674 -3.97e-08 | 2.57e-08 | | | |
| Seller_Sell | | 3.1e+05 | 5.82e+05 | 0.532 |
| 0.594 -8.32e+05 | 1.45e+06 | | | |
| Seller_Sotheby's | | 1.293e+06 | 4.61e+05 | 2.804 |
| 0.005 3.89e+05 | 2.2e+06 | | | |
| Seller_Steveway | | 2.16e-07 | 1.24e-06 | 0.174 |
| 0.862 -2.22e-06 | 2.65e-06 | | | |
| Seller_Stockdale | | -1.448e+05 | 4.15e+05 | -0.349 |
| 0.727 -9.59e+05 | 6.69e+05 | | | |
| Seller_Sweeney | | -5.291e+04 | 4.15e+05 | -0.128 |
| 0.899 -8.66e+05 | 7.6e+05 | | | |
| Seller_Sweeney/Adva | ntage | -1.693e-07 | 7.28e-07 | -0.233 |
| 0.816 -1.6e-06 | 1.26e-06 | | | |
| Seller_TRUE | | -6.37e-08 | 8.17e-07 | -0.078 |
| 0.938 -1.67e-06 | 1.54e-06 | | | |
| Seller_Thomas | | -4.147e+05 | 5.82e+05 | -0.713 |
| 0.476 -1.56e+06 | 7.26e+05 | | | |
| Seller_Thomson | | -2.445e+05 | 4.27e+05 | -0.572 |
| 0.567 -1.08e+06 | 5.93e+05 | | | |
| Seller_Tiernan's | | -1.005e-07 | 4.6e-07 | -0.218 |
| 0.827 -1e-06 | 8.02e-07 | | | |
| Seller_Tim | | -2.873e+05 | 4.45e+05 | -0.645 |
| 0.519 -1.16e+06 | 5.86e+05 | | | |
| Seller_Trimson | | 1.015e+04 | 4.52e+05 | 0.022 |
| 0.982 -8.76e+05 | 8.97e+05 | | | |
| Seller_Triwest | | -7.826e+04 | 5.06e+05 | -0.155 |
| 0.877 -1.07e+06 | 9.15e+05 | | | |
| Seller_U | | -1.084e+05 | 4.69e+05 | -0.231 |
| 0.817 -1.03e+06 | 8.1e+05 | | | |
| Seller_Upper | | 8.438e-08 | 1.54e-07 | 0.546 |
| 0.585 -2.18e-07 | 3.87e-07 | | | |
| Seller_VICProp | | 8.118e+05 | 5.04e+05 | 1.609 |
| 0.108 -1.77e+05 | 1.8e+06 | | | |
| Seller_Veitch | | -1.387e-07 | 1.4e-07 | -0.991 |
| 0.322 -4.13e-07 | 1.36e-07 | | | |
| Seller_Vic | | -8.712e+04 | 5.82e+05 | -0.150 |
| 0.881 -1.23e+06 | 1.05e+06 | | | |
| Seller_Victory | | 8.304e-08 | 3.76e-07 | 0.221 |
| 0.825 -6.54e-07 | 8.2e-07 | | | |
| Seller_Village | | 6.4e+04 | 4.16e+05 | 0.154 |
| 0.878 -7.52e+05 | 8.8e+05 | | | |
| Seller_W.B. | | -9739.7169 | 5.05e+05 | -0.019 |
| 0.985 -1e+06 | 9.81e+05 | | | |
| Seller_WHITEFOX | | 1.379e+05 | 5.82e+05 | 0.237 |
| 0.813 -1e+06 | 1.28e+06 | | | |
| Seller_Walsh | | 1.086e-07 | 2.72e-07 | 0.399 |
| | | | | |

| 0.690 -4.25e-07 6.42e-07 | | | |
|---|------------|----------|--------|
| Seller_Walshe | -2.609e+04 | 4.41e+05 | -0.059 |
| 0.953 -8.9e+05 8.38e+05 | 2.0000.01 | 1.110.00 | 0.000 |
| Seller_Weast | 6.674e-08 | 4.56e-07 | 0.146 |
| 0.884 -8.27e-07 9.6e-07 | 0.0.20 | 11000 01 | 0.110 |
| Seller_Weda | 1.927e+05 | 4.76e+05 | 0.405 |
| 0.686 -7.4e+05 1.13e+06 | | | |
| Seller_Weston | -1.876e+05 | 5.82e+05 | -0.322 |
| 0.747 -1.33e+06 9.53e+05 | | | |
| Seller_Westside | -3.947e+05 | 5.06e+05 | -0.780 |
| 0.435 -1.39e+06 5.97e+05 | | | |
| Seller_White | -2.922e-08 | 3.09e-08 | -0.945 |
| 0.344 -8.98e-08 3.14e-08 | | | |
| Seller_Whiting | -3.294e+05 | 4.61e+05 | -0.715 |
| 0.475 -1.23e+06 5.74e+05 | | | |
| Seller_William | -2.518e+05 | 4.62e+05 | -0.546 |
| 0.585 -1.16e+06 6.53e+05 | | | |
| Seller_Williams | -1.906e+04 | 4.18e+05 | -0.046 |
| 0.964 -8.38e+05 8e+05 | | | |
| Seller_Wilson | -5.953e+04 | 4.42e+05 | -0.135 |
| 0.893 -9.25e+05 8.06e+05 | | | |
| Seller_Win | -2.194e+05 | 4.62e+05 | -0.475 |
| 0.635 -1.13e+06 6.87e+05 | | | |
| Seller_Woodards | -7.268e+04 | 4.14e+05 | -0.175 |
| 0.861 -8.85e+05 7.4e+05 | | | |
| Seller_Xynergy | 3.683e-09 | 4.96e-09 | 0.742 |
| 0.458 -6.05e-09 1.34e-08 | 4 004 .05 | 4 44 .05 | 0.004 |
| Seller_YPA | -1.094e+05 | 4.14e+05 | -0.264 |
| 0.791 -9.2e+05 7.01e+05 | 2 061- 00 | 0 56- 00 | 0 463 |
| Seller_Zahn 0.643 -2.07e-08 1.28e-08 | -3.961e-09 | 8.56e-09 | -0.463 |
| 0.643 -2.07e-08 1.28e-08 Seller_buyMyplace | -1.164e+05 | 5.04e+05 | -0.231 |
| 0.817 -1.11e+06 8.72e+05 | -1.104e+03 | 5.040+05 | -0.231 |
| Seller_hockingstuart | -1.138e+05 | 4.13e+05 | -0.276 |
| 0.783 -9.23e+05 6.95e+05 | 1.1006.00 | 4.106.00 | 0.210 |
| Seller_hockingstuart/Barry | 5.551e+04 | 5.81e+05 | 0.096 |
| 0.924 -1.08e+06 1.19e+06 | 0.0010+01 | 0.010.00 | 0.000 |
| Seller_iProperty | -9.421e+04 | 5.83e+05 | -0.162 |
| 0.872 -1.24e+06 1.05e+06 | | | |
| Seller_iSell | 1.352e+05 | 4.6e+05 | 0.294 |
| 0.769 -7.68e+05 1.04e+06 | | | |
| Seller_iTRAK | -8.852e+04 | 4.56e+05 | -0.194 |
| 0.846 -9.81e+05 8.04e+05 | | | |
| CouncilArea_Bayside | 8.728e+05 | 6.17e+04 | 14.157 |
| 0.000 7.52e+05 9.94e+05 | | | |
| CouncilArea_Boroondara | 6.791e+05 | 5.64e+04 | 12.043 |
| 0.000 5.69e+05 7.9e+05 | | | |
| CouncilArea_Brimbank | -9.05e+04 | 8.47e+04 | -1.068 |
| | | | |

| 0.285 -2.57e+05 7.56e+04 | | | | | |
|---|------------|----------|--------|--|--|
| CouncilArea_Cardinia | 3.406e+05 | 2.81e+05 | 1.213 | | |
| 0.225 -2.1e+05 8.91e+05 | | | | | |
| CouncilArea_Casey | 1.944e+05 | 1.43e+05 | 1.359 | | |
| 0.174 -8.61e+04 4.75e+05 | | | | | |
| CouncilArea_Darebin | 1.242e+05 | 6.03e+04 | 2.061 | | |
| 0.039 6052.889 2.42e+05 | | | | | |
| CouncilArea_Frankston | 5.906e+05 | 1.24e+05 | 4.778 | | |
| 0.000 3.48e+05 8.33e+05 | | | | | |
| CouncilArea_Glen Eira | 4.921e+05 | 5.81e+04 | 8.471 | | |
| 0.000 3.78e+05 6.06e+05 | | | | | |
| CouncilArea_Greater Dandenong | 7.637e+04 | 1.17e+05 | 0.654 | | |
| 0.513 -1.53e+05 3.05e+05 | | | | | |
| CouncilArea_Hobsons Bay | 8.495e+04 | 8.93e+04 | 0.952 | | |
| 0.341 -9e+04 2.6e+05 | | | | | |
| CouncilArea_Hume | -6.181e+04 | 7.28e+04 | -0.849 | | |
| 0.396 -2.05e+05 8.09e+04 | | | | | |
| CouncilArea_Kingston | 4.28e+05 | 7.12e+04 | 6.011 | | |
| 0.000 2.88e+05 5.68e+05 | | | | | |
| CouncilArea_Knox | 2.398e+05 | 7.74e+04 | 3.100 | | |
| 0.002 8.82e+04 3.92e+05 | | | | | |
| CouncilArea_Macedon Ranges | 6.248e+05 | 2.9e+05 | 2.155 | | |
| 0.031 5.64e+04 1.19e+06 | | | | | |
| CouncilArea_Manningham | 1.588e+05 | 4.66e+04 | 3.409 | | |
| 0.001 6.75e+04 2.5e+05 | | | | | |
| CouncilArea_Maribyrnong | -6.788e+04 | 8.74e+04 | -0.776 | | |
| 0.438 -2.39e+05 1.04e+05 | | | | | |
| CouncilArea_Maroondah | 3.076e+05 | 7.72e+04 | 3.985 | | |
| 0.000 1.56e+05 4.59e+05 | | | | | |
| CouncilArea_Melbourne | 1.862e+05 | 6.46e+04 | 2.882 | | |
| 0.004 5.95e+04 3.13e+05 | | | | | |
| CouncilArea_Melton | -1.843e+05 | 1.12e+05 | -1.644 | | |
| 0.100 -4.04e+05 3.55e+04 | | | | | |
| CouncilArea_Monash | 4.125e+05 | 5.58e+04 | 7.387 | | |
| 0.000 3.03e+05 5.22e+05 | | | | | |
| CouncilArea_Moonee Valley | 1.295e+05 | 8.04e+04 | 1.612 | | |
| 0.107 -2.8e+04 2.87e+05 | | | | | |
| CouncilArea_Moorabool | 0 | 0 | nan | | |
| nan 0 0 | | | | | |
| CouncilArea_Moreland | -6638.8805 | 5.75e+04 | -0.116 | | |
| 0.908 -1.19e+05 1.06e+05 | | | | | |
| CouncilArea_Nillumbik | 4.254e+04 | 1.05e+05 | 0.406 | | |
| 0.685 -1.63e+05 2.48e+05 | | | | | |
| CouncilArea_Port Phillip 4.941e+05 6.3e+04 7.84 | | | | | |
| 0.000 3.71e+05 6.18e+05 | | | | | |
| CouncilArea_Stonnington | 6.852e+05 | 5.96e+04 | 11.491 | | |
| 0.000 5.68e+05 8.02e+05 | • | • | | | |
| CouncilArea_Unavailable | 0 | 0 | nan | | |

| nan | 0 | 0 | | | |
|---------|--------------|-------------------|---------------|----------|---|
| Council | Area_Whiteho | orse | 3.469e+05 | 4.88e+04 | 7.112 |
| 0.000 | 2.51e+05 | 4.43e+05 | | | |
| Council | Area_Whittle | esea | 2.655e+04 | 7.42e+04 | 0.358 |
| 0.721 | -1.19e+05 | 1.72e+05 | | | |
| Council | Area_Wyndham | n | -1.335e+05 | 9.97e+04 | -1.338 |
| 0.181 | -3.29e+05 | 6.21e+04 | | | |
| Council | Area_Yarra | | 2.188e+05 | 6.43e+04 | 3.405 |
| 0.001 | 9.28e+04 | 3.45e+05 | | | |
| Council | Area_Yarra H | Ranges | 9.894e+04 | 2.08e+05 | 0.475 |
| 0.635 | -3.09e+05 | 5.07e+05 | | | |
| RegionN | ame_Eastern | Victoria | 2.56e+05 | 1.79e+05 | 1.427 |
| 0.154 | -9.57e+04 | 6.08e+05 | | | |
| RegionN | ame_Northern | n Metropolitan | -1.485e+05 | 5.46e+04 | -2.721 |
| 0.007 | -2.56e+05 | -4.15e+04 | | | |
| RegionN | ame_Northern | n Victoria | 2.239e+05 | 1.55e+05 | 1.447 |
| 0.148 | -7.95e+04 | 5.27e+05 | | | |
| RegionN | ame_South-Ea | astern Metropolit | an -2.656e+04 | 6.17e+04 | -0.430 |
| 0.667 | -1.48e+05 | 9.44e+04 | | | |
| RegionN | ame_Southerr | n Metropolitan | -1.65e+05 | 4.4e+04 | -3.747 |
| 0.000 | -2.51e+05 | -7.87e+04 | | | |
| RegionN | ame_Western | Metropolitan | -1.694e+05 | 7.96e+04 | -2.129 |
| 0.033 | -3.25e+05 | -1.34e+04 | | | |
| RegionN | ame_Western | Victoria | 2.142e+05 | 1.73e+05 | 1.241 |
| 0.215 | -1.24e+05 | 5.52e+05 | | | |
| | | | | | |
| Omnibus | : | 3689.2 | 64 Durbin-Wa | tson: | 1.997 |
| Prob(Om | nibus): | | 00 Jarque-Be | | 127784.945 |
| Skew: | | | 95 | | 0.00 |
| Kurtosi | s: | 24.8 | 30 Cond. No. | | 7.69e+20 |
| ====== | ========= | | ========= | ======== | ======================================= |

Notes:

- [1] Standard Errors assume that the covariance matrix of the errors is correctly specified.
- [2] The smallest eigenvalue is 7.65e-31. This might indicate that there are strong multicollinearity problems or that the design matrix is singular.

1.6.1 Alejandro Gleason Méndez - ag77698