Melbourne Housing Data

Appendix

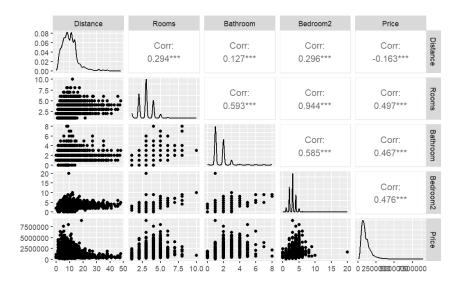
Appendix -1

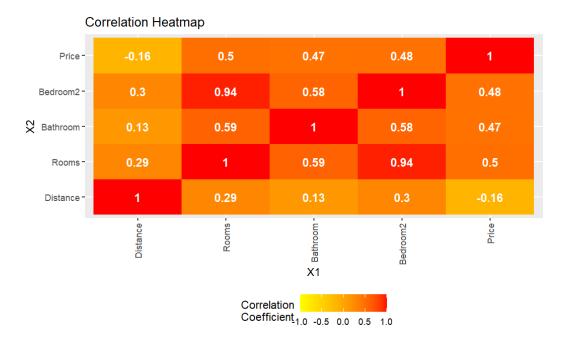
```
'data.frame':
                 13580 obs. of 21 variables:
                  : Factor w/ 314 levels "Abbotsford", "Aberfeldie", ...: 1 1 1 1
 $ Suburb
111111
                  : chr "85 Turner St" "25 Bloomburg St" "5 Charles St" "40
 $ Address
Federation La"
                  : int 2 2 3 3 4 2 3 2 1 2 ...
: Factor w/ 3 levels "h","t","u": 1 1 1 1 1 1 1 1 3 1 ...
: num    1480000 1035000 1465000 850000 1600000 ...
: Factor w/ 5 levels "PI","S","SA",..: 2 2 4 1 5 2 2 2 2 2
 $ Rooms
   Туре
  Price
 $ Method
                   : Factor w/ 268 levels "@Realty", "Abercromby's",...: 24 24 24
 $ SellerG
24 165 114 165 165 24 24
                          $ Date
                  : chr
 $ Distance
                    num
                          3067 3067 3067 3067 3067 ...
   Postcode
                    num
   Bedroom2
                    num
 $ Bathroom
                                   1
                    num
                          1
                             1
                                      1
                                             1
                          1 0 0 1
                                    2 0 0 2 1 2
   Car
                    num
                          202 156 134 94 120 181 245 256 0 220 ...
  Landsize
                    num
                          NA 79 150 NA 142 NA 210 107 NA 75 ...
 $ BuildingArea :
                    num
                    num NA 1900 1900 NA 2014 ...
Factor w/ 34 levels "", "Banyule", "Bayside",..: 33 33 33
  YearBuilt
   CouncilArea
33 33 33 33 33 ...
                          -37.8 -37.8 -37.8 -37.8 -37.8 ...
145 145 145 145 1...
 $ Lattitude
                  : num
   Longtitude
                  : num
                  : Factor w/ 8 levels "Eastern Metropolitan",..: 3 3 3 3 3 3
 $ Regionname
 $ Propertycount: num 4019 4019 4019 4019 4019 ...NULL
No cleaning was required for the set of variables I choose as there were no inconsistent/
```

No cleaning was required for the set of variables I choose as there were no inconsistent/missing values for the filtered dataset I am using.

Appendix -2

The correlation plots/ significance used for picking the initial predictors.

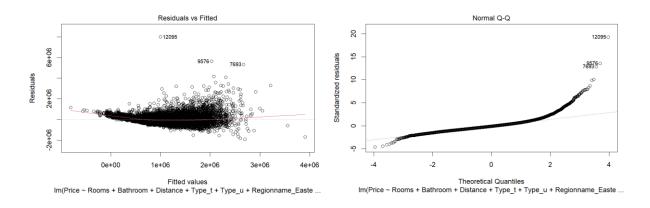


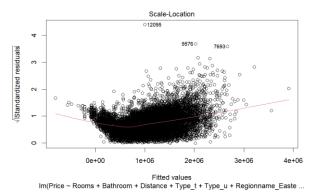


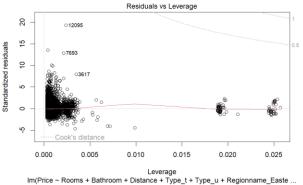
Appendix -3

The residual plots of the 3 models for testing the assumptions for multiple linear regression

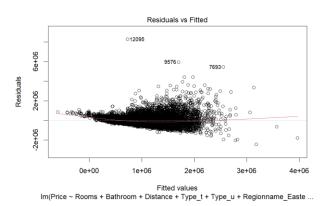
Model 2

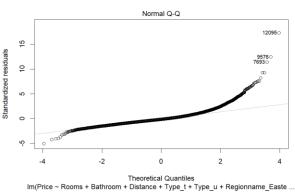


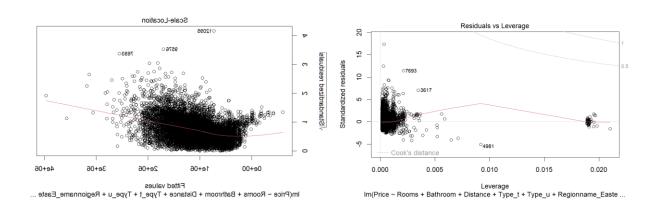




Model 1







Model 3

