**Assignment 3**

*Due 11:59 PM, Sunday March 1st*

Read the case description below, and download the RMarkdown assignment and data file.  Do the necessary coding to answer the assignment questions using the best practices of reproducible data analytics.  Once you have finished coding and writing, compile that document to HTML and submit it for this assignment. You may work with others on this case but must do your own coding.

Objectives

* Use statistical comparison of means to solve a business problem.
* Practice communicating results to a client.

R packages

* tidyverse

R functions

* set.seed()
* ggplot()
* geom\_histogram() or geom\_density()
* mean()
* sd()
* qnorm()
* rnorm()
* qt(),
* rt()
* pt()
* geom\_vline()
* group\_by()
* t.test()

Valmax Realty Case

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Case Description

VALMAX Is one of the largest real estate companies in the Rocky Mountain region. John Porter is the manager of VALMAX's Denver office, which is one of the company's most profitable.

VALMAX has received complaints from a number of recent clients in Denver who believe that they were advised to post asking prices for the houses that were too low, especially relative to the asking prices for houses brokered by other realtors. VALMAX has also received complaints from other clients in Denver who believe that they were advised to accept selling prices for houses they purchased that were too high relative to the selling prices for houses brokered by other realtors. John Porter has decided to perform an analysis of recent real estate transactions in Denver in order to estimate whether these claims have substance.

John has collected the asking prices and selling prices for 79 homes sold in Denver in the last three months, and has divided the sales into the 35 sales brokered by VALMAX and the other 44 sales that were brokered by other realtors.

Are the clients' complaints justified?