# Predicting Residential Home Sales Prices Using Regression Analysis

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## Purpose

We are conducting a multiple linear regression model from the Real Estate Sales (APPENC07) dataset to analyze the relationship of the given features, bedrooms, bathrooms, and garage size, with the outcome variable, house sales price.

## Our Data

#### Background on dataset and variables

Our dataset is comprised of 522 total transactions from home sales during the year 2002.

Response Variable (Y)	Explanatory Variable 1 $(X_1)$	Explanatory Variable 2 $(X_2)$	Explanatory Variable 3 $(X_3)$
"house_price" = sales price of residence (in dollars)	"beds" = Number	"baths" = Number	"garage_size" = Number of
	of bedrooms	of bathrooms	cars the garage can hold

```
#Setting up our work environment
setwd("C:/Users/RUMIL/Desktop/APU/STAT 511 - Millie Mao (Applied Regression Analysis)/Project 2")
library(nortest)
library(olsrr)
library(car)
library(Imtest)
library(MASS)
library(tidyverse)
library(dplyr)
```