## RFinalHYu

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## **Data Import**

## Read in Raw Data

Read in the raw data directly form the url.

```
rawhouse <- read.csv("https://www4.stat.ncsu.edu/~online/ST308/Data/hyu23_house.csv")</pre>
```

## **Data Subsetting**

Create a tibble from the read in data table with the following modifications:

- 1. Remove any observations where
  - the SaleType variable takes the value "Other" or
  - the  ${\tt BedroomAbvGr}$  variable takes on a value less than or equal to 2
- 2. Create a new variable with a name of your choosing that is the SalePrice variable divided by 100000.
- 3. The  ${\tt GarageArea}$  and  ${\tt MSZoning}$  variables are removed

```
House <- rawhouse %>%
filter(SaleType != "Other") %>%
filter(BedroomAbvGr > 2) %>%
mutate(SalePrice100k = SalePrice/100000) %>%
select(-GarageArea, -MSZoning)
```

Now print out the first 10 observations and first 6 variables of House.

SalePrice	BsmtUnf	<b>F</b> erallQu <b>©</b>	)  penPorc	<b>E</b> Troom	Alvscol	dBsmt	Co <b>Bs</b> mtFir	nT <b>ylpo∉S</b> h	ap <b>G</b> arag	geC <b>&amp;nd</b> eTyp	SalePrice10
208500	150	7	61	3	2008	TA	Unf	Reg	TA	WD	2.085
181500	284	6	0	3	2007	TA	$\operatorname{Unf}$	$\operatorname{Reg}$	TA	WD	1.815
223500	434	7	42	3	2008	TA	$\operatorname{Unf}$	IR1	TA	WD	2.235
140000	540	7	35	3	2006	$\operatorname{Gd}$	$\operatorname{Unf}$	IR1	TA	WD	1.400
250000	490	8	84	4	2008	TA	$\operatorname{Unf}$	IR1	TA	WD	2.500
307000	317	8	57	3	2007	TA	$\operatorname{Unf}$	Reg	TA	WD	3.070
200000	216	7	204	3	2009	TA	Other	IR1	TA	WD	2.000
279500	1494	7	33	3	2007	TA	$\operatorname{Unf}$	IR1	TA	New	2.795
159000	468	5	102	3	2008	TA	$\operatorname{Unf}$	Reg	TA	WD	1.590
139000	525	5	0	3	2009	TA	$\operatorname{Unf}$	Reg	TA	COD	1.390