# Feature Selection and EDA Report

## Null Values

### Null Values by Columns/Features

Out of 80 total data columns, there are 19 columns with at least 1 null value.

| Feature | Num of Nulls | Frac Null |
|---|---|---|
| PoolQC | 1453 | 1.0 |
| MiscFeature | 1406 | 0.96 |
| Alley | 1369 | 0.94 |
| Fence | 1179 | 0.81 |
| MasVnrType | 872 | 0.6 |
| FireplaceQu | 690 | 0.47 |
| LotFrontage | 259 | 0.18 |
| GarageType | 81 | 0.06 |

### Null Values by Rows/Data Samples

Out of 1460 total rows/data samples, 1460 rows have at least one null value.

The row with the most NULL values has 16 NULLs.

### Numeric vs Non-Numeric Features and Unique Values Count

Out of 79 total feature columns, there are 36 numeric columns and 43 non-numeric columns.

| Numeric Feature | Num Unique Values |
|---|---|
| BsmtHalfBath | 3 |
| HalfBath | 3 |
| BsmtFullBath | 4 |
| FullBath | 4 |
| KitchenAbvGr | 4 |
| Fireplaces | 4 |
| GarageCars | 5 |
| YrSold | 5 |

There are an additional 4 numeric feature columns with 10 or fewer unique values.

| Non-Numeric Feature | Num Unique Values |
|---|---|
| Neighborhood | 25 |
| Exterior2nd | 16 |
| Exterior1st | 15 |
| Condition1 | 9 |
| SaleType | 9 |
| Condition2 | 8 |
| HouseStyle | 8 |
| RoofMatl | 8 |

There are an additional 8 non-numeric feature columns with more than 5 unique values.

### Target Column

For the chosen target column ('SalePrice'), this appears to be a regression problem.
The target column has 0 null values and 663 unique values.

The above plot shows the distribution of values in the target column.

## Feature Correlations

### Correlations of Numeric Features with Target Variable

| Numeric Feature | Count non-Null | Pearson Corr | RF Corr |
|---|---|---|---|
| OverallQual | 1460 | 0.79 | 0.62 |
| GrLivArea | 1460 | 0.71 | 0.51 |
| GarageCars | 1460 | 0.64 | 0.48 |
| GarageArea | 1460 | 0.62 | 0.47 |
| TotalBsmtSF | 1460 | 0.61 | 0.46 |
| 1stFlrSF | 1460 | 0.61 | 0.42 |
| YearBuilt | 1460 | 0.52 | 0.38 |
| GarageYrBlt | 1379 | 0.49 | 0.32 |

The above plot shows a histogram of all numeric features and their correlation value with the target variable.

## Correlations between Numeric Features

| Numeric Feature | Avg Pearson Correlation | Avg RF Correlation | Feat with Max Pear Corr | Max Pear Corr | Feat with Max RF Corr | Max RF Corr |
|---|---|---|---|---|---|---|
| GarageArea | 0.24 | 0.14 | GarageCars | 0.88 | GarageCars | 0.83 |
| GarageCars | 0.25 | 0.13 | GarageArea | 0.88 | GarageArea | 0.83 |
| YearBuilt | 0.22 | 0.16 | GarageYrBlt | 0.83 | GarageYrBlt | 0.73 |
| GarageYrBlt | 0.21 | 0.14 | YearBuilt | 0.83 | YearBuilt | 0.73 |
| TotRmsAbvGrd | 0.23 | 0.11 | GrLivArea | 0.83 | GrLivArea | 0.69 |
| GrLivArea | 0.28 | 0.16 | TotRmsAbvGrd | 0.83 | TotRmsAbvGrd | 0.69 |
| TotalBsmtSF | 0.25 | 0.13 | 1stFlrSF | 0.82 | 1stFlrSF | 0.68 |
| 1stFlrSF | 0.25 | 0.13 | TotalBsmtSF | 0.82 | TotalBsmtSF | 0.68 |

The above plot shows a histogram of all unique pairs of numeric features and the correlation between the two features of each the pair.

**Correlations of Non-Numeric Features with Target Variable**

| Non-Numeric Feature | Count non-Null | Num Unique | Mutual Info | RF Corr | RF Corr (norm) |
|---|---|---|---|---|---|
| Neighborhood | 1460 | 25 | 0.53 | 0.55 | 0.55 |
| ExterQual | 1460 | 4 | 0.33 | 0.48 | 0.51 |
| KitchenQual | 1460 | 4 | 0.33 | 0.46 | 0.49 |
| BsmtQual | 1423 | 4 | 0.31 | 0.45 | 0.48 |
| Alley | 91 | 2 | 0.29 | 0.29 | 0.38 |
| GarageFinish | 1379 | 3 | 0.22 | 0.27 | 0.3 |
| Foundation | 1460 | 6 | 0.2 | 0.26 | 0.26 |
| GarageType | 1379 | 6 | 0.16 | 0.21 | 0.21 |

The above plot shows a histogram of all non-numeric features and their correlation value with the target variable.

## Plots of Numeric Columns versus the Target Variable

OverallQual vs SalePrice : P=0.79, MI=0.57, RF=0.62
SalePrice
OverallQual
0
100000
200000
300000
400000
500000
600000
700000
1
2
3
4
5
6
7
8
9
10
0.0
0.5
1.0
1.5
2.0
2.5
3.0

GrLivArea vs SalePrice : P=0.71, MI=0.48, RF=0.51
SalePrice
GrLivArea
0
100000
200000
300000
400000
500000
600000
700000
1000
2000
3000
4000
5000
1
2
3
4
5
6
7
8

GarageCars vs SalePrice : P=0.64, MI=0.36, RF=0.48
SalePrice
GarageCars
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
3
4
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5

GarageArea vs SalePrice : P=0.62, MI=0.36, RF=0.47
SalePrice
GarageArea
0
100000
200000
300000
400000
500000
600000
700000
0
200
400
600
800
1000
1200
1400
0.25
0.50
0.75
1.00
1.25
1.50
1.75

TotalBsmtSF vs SalePrice : P=0.61, MI=0.37, RF=0.46
Not Shown: 1 Outliers
SalePrice
TotalBsmtSF
0
100000
200000
300000
400000
500000
600000
700000
0
500
1000
1500
2000
2500
3000
0.2
0.4
0.6
0.8
1.0

1stFlrSF vs SalePrice : P=0.61, MI=0.31, RF=0.42
SalePrice
1stFlrSF
0
100000
200000
300000
400000
500000
600000
700000
1000
2000
3000
4000
0.2
0.4
0.6
0.8
1.0

YearBuilt vs SalePrice : P=0.52, MI=0.37, RF=0.38
SalePrice
YearBuilt
0
100000
200000
300000
400000
500000
600000
700000
1880
1900
1920
1940
1960
1980
2000
0.2
0.4
0.6
0.8
1.0
1.2

GarageYrBlt vs SalePrice : P=0.49, MI=0.26, RF=0.32
SalePrice
GarageYrBlt
0
100000
200000
300000
400000
500000
600000
700000
1900
1920
1940
1960
1980
2000
−1
0
1
2
3
4
5
6
7

YearRemodAdd vs SalePrice : P=0.51, MI=0.25, RF=0.3
SalePrice
YearRemodAdd
0
100000
200000
300000
400000
500000
600000
700000
1950
1960
1970
1980
1990
2000
2010
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

TotRmsAbvGrd vs SalePrice : P=0.53, MI=0.21, RF=0.3
SalePrice
TotRmsAbvGrd
0
100000
200000
300000
400000
500000
600000
700000
2
4
6
8
10
12
14
0.5
1.0
1.5
2.0

BsmtFinSF1 vs SalePrice : P=0.39, MI=0.14, RF=0.28
Not Shown: 1 Outliers
SalePrice
BsmtFinSF1
0
100000
200000
300000
400000
500000
600000
700000
0
500
1000
1500
2000
1
2
3
4
5
6
7

FullBath vs SalePrice : P=0.56, MI=0.26, RF=0.27
SalePrice
FullBath
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
3
0
1
2
3
4
5
6

LotArea vs SalePrice : P=0.26, MI=0.16, RF=0.25
Not Shown: 4 Qutliers
SalePrice
LotArea
0
100000
200000
300000
400000
500000
600000
700000
0
10000
20000
30000
40000
50000
60000
70000
1
2
3
4
5
6
7
8
9

MSSubClass vs SalePrice : P=-0.08, MI=0.28, RF=0.24
SalePrice
MSSubClass
0
100000
200000
300000
400000
500000
600000
700000
25
50
75
100
125
150
175
2
4
6
8

Fireplaces vs SalePrice : P=0.47, MI=0.17, RF=0.23
SalePrice
Fireplaces
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
3
0
1
2
3
4
5

LotFrontage vs SalePrice : P=0.35, MI=0.21, RF=0.23
Not Shown: 2 Outliers
SalePrice
LotFrontage
0
100000
200000
300000
400000
500000
600000
700000
20
40
60
80
100
120
140
160
180
0.0
0.2
0.4
0.6
0.8
1.0

2ndFlrSF vs SalePrice : P=0.32, MI=0.21, RF=0.23
SalePrice
2ndFlrSF
0
100000
200000
300000
400000
500000
600000
700000
0
500
1000
1500
2000
0.2
0.4
0.6
0.8
1.0
1.2

MasVnrArea vs SalePrice : P=0.48, MI=0.1, RF=0.22
SalePrice
MasVnrArea
0
100000
200000
300000
400000
500000
600000
700000
0
200
400
600
800
1000
1200
1400
1600
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

OpenPorchSF vs SalePrice : P=0.32, MI=0.15, RF=0.21
SalePrice
OpenPorchSF
0
100000
200000
300000
400000
500000
600000
700000
0
100
200
300
400
500
2
4
6
8

WoodDeckSF vs SalePrice : P=0.32, MI=0.1, RF=0.14
SalePrice
WoodDeckSF
0
100000
200000
300000
400000
500000
600000
700000
0
200
400
600
800
1
2
3
4

BsmtUnfSF vs SalePrice : P=0.21, MI=0.12, RF=0.12
SalePrice
BsmtUnfSF
0
100000
200000
300000
400000
500000
600000
700000
0
500
1000
1500
2000
1
2
3
4
5
6
7

OverallCond vs SalePrice : P=-0.08, MI=0.11, RF=0.12
SalePrice
OverallCond
0
100000
200000
300000
400000
500000
600000
700000
1
2
3
4
5
6
7
8
9
0.0
0.5
1.0
1.5
2.0
2.5

HalfBath vs SalePrice : P=0.28, MI=0.08, RF=0.09
SalePrice
HalfBath
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
0
1
2
3
4
5
6
7

BedroomAbvGr vs SalePrice : P=0.17, MI=0.08, RF=0.05
SalePrice
BedroomAbvGr
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
3
4
5
6
8
0.0
0.5
1.0
1.5
2.0
2.5
3.0

BsmtFullBath vs SalePrice : P=0.23, MI=0.03, RF=0.05
SalePrice
BsmtFullBath
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
3
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0

EnclosedPorch vs SalePrice : P=-0.13, MI=0.03, RF=0.04
SalePrice
EnclosedPorch
0
100000
200000
300000
400000
500000
600000
700000
0
100
200
300
400
500
0.2
0.4
0.6
0.8
1.0
1.2

ScreenPorch vs SalePrice : P=0.11, MI=0.01, RF=0.02
SalePrice
ScreenPorch
0
100000
200000
300000
400000
500000
600000
700000
0
100
200
300
400
500
0.2
0.4
0.6
0.8
1.0
1.2
1.4

MoSold vs SalePrice : P=0.05, MI=0.0, RF=0.01
SalePrice
MoSold
0
100000
200000
300000
400000
500000
600000
700000
2
4
6
8
10
12
0.2
0.4
0.6
0.8
1.0

KitchenAbvGr vs SalePrice : P=-0.14, MI=0.01, RF=0.01
SalePrice
KitchenAbvGr
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
3
0
1
2
3
4
5
6

BsmtFinSF2 vs SalePrice : P=-0.01, MI=0.0, RF=0.01
SalePrice
BsmtFinSF2
0
100000
200000
300000
400000
500000
600000
700000
0
200
400
600
800
1000
1200
1400
1
2
3
4

PoolArea vs SalePrice : P=0.09, MI=0.0, RF=0.0
SalePrice
PoolArea
0
480
512
519
555
576
648
738
700000
600000
500000
400000
300000
200000
100000
0
6
5
4
3
2
1
0

MiscVal vs SalePrice : P=-0.02, MI=0.0, RF=0.0
Not Shown: 2 Outliers
SalePrice
MiscVal
0
500
1000
1500
2000
2500
3000
3500
700000
600000
500000
400000
300000
200000
100000
0
4
3
2
1

LowQualFinSF vs SalePrice : P=-0.03, MI=0.0, RF=0.0
Not Shown: 5 Outliers
SalePrice
LowQualFinSF
0
100000
200000
300000
400000
500000
600000
700000
0
100
200
300
400
500
0.5
1.0
1.5
2.0

3SsnPorch vs SalePrice : P=0.04, MI=0.0, RF=0.0
Not Shown: 4 Outliers
SalePrice
3SsnPorch
0
100000
200000
300000
400000
500000
600000
700000
0
50
100
150
200
250
300
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0

BsmtHalfBath vs SalePrice : P=-0.02, MI=0.01, RF=0.0
SalePrice
BsmtHalfBath
0
100000
200000
300000
400000
500000
600000
700000
0
1
2
0
1
2
3
4
5
6
7

YrSold vs SalePrice : P=-0.03, MI=0.0, RF=0.0
SalePrice
YrSold
0
100000
200000
300000
400000
500000
600000
700000
2006
2007
2008
2009
2010
0.0
0.5
1.0
1.5
2.0

## Plots of Non-Numeric Columns versus the Target Variable

Neighborhood vs SalePrice : MI=0.53, RF=0.55, RF_norm=0.55
Plotting top 20 out of 25 total uniq vals
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
MeadowV
IDOTRR
OldTown
Edwards
BrkSide
Sawyer
SWISU
NAmes
Mitchel
SawyerW
Gilbert
NWAmes
CollgCr
ClearCr
Crawfor
Somerst
Timber
StoneBr
NoRidge
NridgHt
Neighborhood
0.0
0.2
0.4
0.6
0.8
1.0

ExterQual vs SalePrice : MI=0.33, RF=0.48, RF_norm=0.51
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
Fa
TA
Gd
Ex
ExterQual
0
1
2
3
4
5
6

KitchenQual vs SalePrice : MI=0.33, RF=0.46, RF_norm=0.49
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Fa
TA
Gd
Ex
KitchenQual
5
4
3
2
1
0

BsmtQual vs SalePrice : MI=0.31, RF=0.45, RF_norm=0.48
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Fa
TA
Gd
Ex
BsmtQual
5
4
3
2
1
0

Alley vs SalePrice : MI=0.29, RF=0.29, RF_norm=0.38
SalePrice
250000
200000
150000
100000
50000
Grvl
Pave
Alley
8
7
6
5
4
3
2
1
0

GarageFinish vs SalePrice : MI=0.22, RF=0.27, RF_norm=0.3
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Unf
RFn
Fin
GarageFinish
7
6
5
4
3
2
1
0

Foundation vs SalePrice : MI=0.2, RF=0.26, RF_norm=0.26
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Slab
BrkTil
Stone
CBlock
Wood
PConc
Foundation
5
4
3
2
1
0

GarageType vs SalePrice : MI=0.16, RF=0.21, RF_norm=0.21
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
CarPort
Detchd
Basment
2Types
Attchd
BuiltIn
GarageType
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0

HeatingQC vs SalePrice : MI=0.17, RF=0.2, RF_norm=0.2
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Po
Fa
TA
Gd
Ex
HeatingQC
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0

BsmtFinType1 vs SalePrice : MI=0.13, RF=0.19, RF_norm=0.2
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
LwQ
BLQ
Rec
ALQ
Unf
GLQ
BsmtFinType1
2.0
1.5
1.0
0.5
0.0

Exterior1st vs SalePrice : MI=0.13, RF=0.15, RF_norm=0.15
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
BrkComm
AsphShn
CBlock
AsbShng
WdShing
Wd Sdng
MetalSd
Stucco
HdBoard
BrkFace
Plywood
VinylSd
CemntBd
Stone
ImStucc
Exterior1st
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

Exterior2nd vs SalePrice : MI=0.16, RF=0.15, RF_norm=0.15
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
CBlock
AsbShng
Wd Sdng
Wd Shng
MetalSd
AsphShn
Stucco
Brk Cmn
HdBoard
BrkFace
Plywood
Stone
ImStucc
VinylSd
CmentBd
Other
Exterior2nd
0.0
0.2
0.4
0.6
0.8
1.0
1.2

SaleType vs SalePrice : MI=0.08, RF=0.13, RF_norm=0.14
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Oth
ConLl
COD
ConLD
ConLw
WD
CWD
New
Con
SaleType
5
4
3
2
1
0

BsmtExposure vs SalePrice : MI=0.06, RF=0.13, RF_norm=0.14
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
No
Mn
Av
Gd
BsmtExposure
5
4
3
2
1
0

SaleCondition vs SalePrice : MI=0.07, RF=0.14, RF_norm=0.14
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
AdjLand
Abnorml
Family
Alloca
Normal
Partial
SaleCondition
5
4
3
2
1
0

FireplaceQu vs SalePrice : MI=0.08, RF=0.11, RF_norm=0.12
SalePrice
700000
600000
500000
400000
300000
200000
100000
Po
Fa
TA
Gd
Ex
FireplaceQu
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0

MSZoning vs SalePrice : MI=0.13, RF=0.11, RF_norm=0.11
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
C (all)
RM
RH
RL
FV
MSZoning
0
1
2
3
4
5

MasVnrType vs SalePrice : MI=0.05, RF=0.1, RF_norm=0.11
SalePrice
100000
200000
300000
400000
500000
600000
700000
BrkCmn
BrkFace
Stone
MasVnrType
0
1
2
3
4
5
6

HouseStyle vs SalePrice : MI=0.08, RF=0.09, RF_norm=0.09
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
1.5Unf
1.5Fin
2.5Unf
SFoyer
1Story
SLvl
2Story
2.5Fin
HouseStyle
3.0
2.5
2.0
1.5
1.0
0.5
0.0

CentralAir vs SalePrice : MI=0.07, RF=0.06, RF_norm=0.08
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
N
Y
CentralAir
8
7
6
5
4
3
2
1
0

LotShape vs SalePrice : MI=0.09, RF=0.08, RF_norm=0.08
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Reg
IR1
IR3
IR2
LotShape
5
4
3
2
1
0

PavedDrive vs SalePrice : MI=0.04, RF=0.05, RF_norm=0.06
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
N
P
Y
PavedDrive
7
6
5
4
3
2
1
0

RoofStyle vs SalePrice : MI=0.02, RF=0.06, RF_norm=0.06
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
Gambrel
Gable
Mansard
Hip
Flat
Shed
RoofStyle
0
1
2
3
4
5

Electrical vs SalePrice : MI=0.05, RF=0.06, RF_norm=0.06
SalePrice
0
100000
200000
300000
400000
500000
600000
700000
Mix
FuseP
FuseF
FuseA
SBrkr
Electrical
0
1
2
3
4
5

Fence vs SalePrice : MI=0.06, RF=0.05, RF_norm=0.05
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
MnWw
MnPrv
GdWo
GdPrv
Fence
8
6
4
2
0

BldgType vs SalePrice : MI=0.04, RF=0.03, RF_norm=0.04
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
2fmCon
Duplex
Twnhs
1Fam
TwnhsE
BldgType
5
4
3
2
1
0

Condition1 vs SalePrice : MI=0.02, RF=0.03, RF_norm=0.03
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Artery
Feedr
RRAe
Norm
RRAn
RRNe
PosN
PosA
RRNn
Condition1
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0

LandContour vs SalePrice : MI=0.03, RF=0.03, RF_norm=0.03
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Bnk
Lvl
Low
HLS
LandContour
5
4
3
2
1
0

GarageCond vs SalePrice : MI=0.03, RF=0.03, RF_norm=0.03
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Po
Fa
Ex
Gd
TA
GarageCond
6
5
4
3
2
1
0

RoofMatl vs SalePrice : MI=0.01, RF=0.03, RF_norm=0.03
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Roll
ClyTile
CompShg
Tar&Grv
Metal
Membran
WdShake
WdShngl
RoofMatl
5
4
3
2
1
0

BsmtCond vs SalePrice : MI=0.03, RF=0.03, RF_norm=0.03
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Po
Fa
TA
Gd
BsmtCond
6
5
4
3
2
1
0

LotConfig vs SalePrice : MI=0.02, RF=0.02, RF_norm=0.02
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Inside
Corner
FR2
FR3
CulDSac
LotConfig
4
3
2
1
0

Functional vs SalePrice : MI=0.01, RF=0.02, RF_norm=0.02
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Maj2
Sev
Mod
Min1
Min2
Maj1
Typ
Functional
6
5
4
3
2
1
0

GarageQual vs SalePrice : MI=0.02, RF=0.02, RF_norm=0.02
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Po
Fa
Ex
TA
Gd
GarageQual
5
4
3
2
1
0

ExterCond vs SalePrice : MI=0.02, RF=0.02, RF_norm=0.02
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Po
Fa
Gd
Ex
TA
ExterCond
5
4
3
2
1
0

BsmtFinType2 vs SalePrice : MI=0.01, RF=0.01, RF_norm=0.01
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
BLQ
Rec
LwQ
Unf
ALQ
GLQ
BsmtFinType2
5
4
3
2
1
0

Heating vs SalePrice : MI=0.01, RF=0.01, RF_norm=0.01
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Floor
Grav
Wall
OthW
GasW
GasA
Heating
5
4
3
2
1
0

Street vs SalePrice : MI=0.0, RF=0.0, RF_norm=0.0
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Grvl
Pave
Street
8
6
4
2
0

Condition2 vs SalePrice : MI=0.0, RF=0.0, RF_norm=0.0
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
RRNn
Artery
Feedr
RRAn
Norm
RRAe
PosN
PosA
Condition2
5
4
3
2
1
0

LandSlope vs SalePrice : MI=0.0, RF=0.0, RF_norm=0.0
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
Gtl
Sev
Mod
LandSlope
7
6
5
4
3
2
1
0

PoolQC vs SalePrice : MI=0.0, RF=0.0, RF_norm=0.0
SalePrice
700000
600000
500000
400000
300000
200000
Gd
Fa
Ex
PoolQC
1.0
0.8
0.6
0.4
0.2
0.0

MiscFeature vs SalePrice : MI=0.0, RF=0.0, RF_norm=0.0
SalePrice
250000
200000
150000
100000
50000
Othr
Shed
Gar2
TenC
MiscFeature
5
4
3
2
1
0

Utilities vs SalePrice : MI=0.0, RF=0.0, RF_norm=0.0
SalePrice
700000
600000
500000
400000
300000
200000
100000
0
NoSeWa
AllPub
Utilities
8
6
4
2
0