Correlations and Scatter Plots with SalePrice

The CORR Procedure

1 With Variables:	SalePrice
8 Variables:	Gr_Liv_Area Basement_Area Garage_Area Deck_Porch_Area Lot_Area Age_Sold Bedroom_AbvGr Total_Bathroom

Simple Statistics

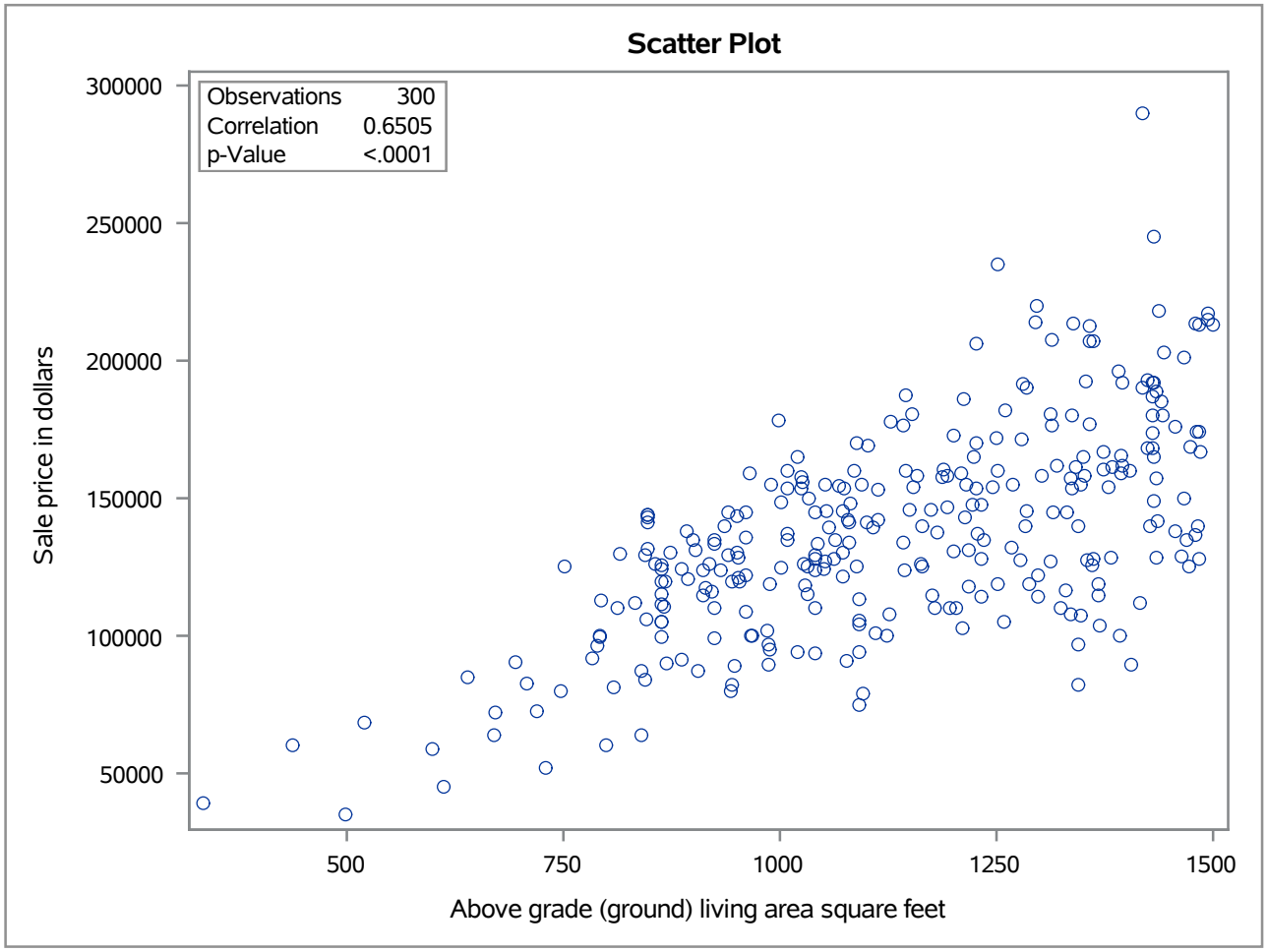
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
SalePrice	300	137525	37623	41257460	35000	290000	Sale price in dollars
Gr_Liv_Area	300	1131	232.64939	339222	334.00000	1500	Above grade (ground) living area square feet
Basement_Area	300	882.31000	359.78397	264693	0	1645	Basement area in square feet
Garage_Area	300	369.45333	176.25309	110836	0	902.00000	Size of garage in square feet
Deck_Porch_Area	300	118.26333	132.61169	35479	0	897.00000	Total area of decks and porches in square feet
Lot_Area	300	8294	3324	2488241	1495	26142	Lot size in square feet
Age_Sold	300	45.88667	27.47697	13766	1.00000	135.00000	Age of house when sold, in years
Bedroom_AbvGr	300	2.51333	0.69144	754.00000	0	4.00000	Bedrooms above grade
Total_Bathroom	300	1.70167	0.65707	510.50000	1.00000	4.10000	Total number of bathrooms (half bathrooms counted 10%)

Pearson Correlation Coefficients, N = 300
Prob > |r| under H0: Rho=0

	Basement_Area	Gr_Liv_Area	Age_Sold	Total_Bathroom	Garage_Area	Deck_Porch_Area	Lot_Area	Bedroom_AbvGr
SalePrice **Sale price in dollars**	0.68956 <.0001	0.65046 <.0001	-0.61542 <.0001	0.60043 <.0001	0.57892 <.0001	0.43989 <.0001	0.25335 <.0001	0.16594 0.0040

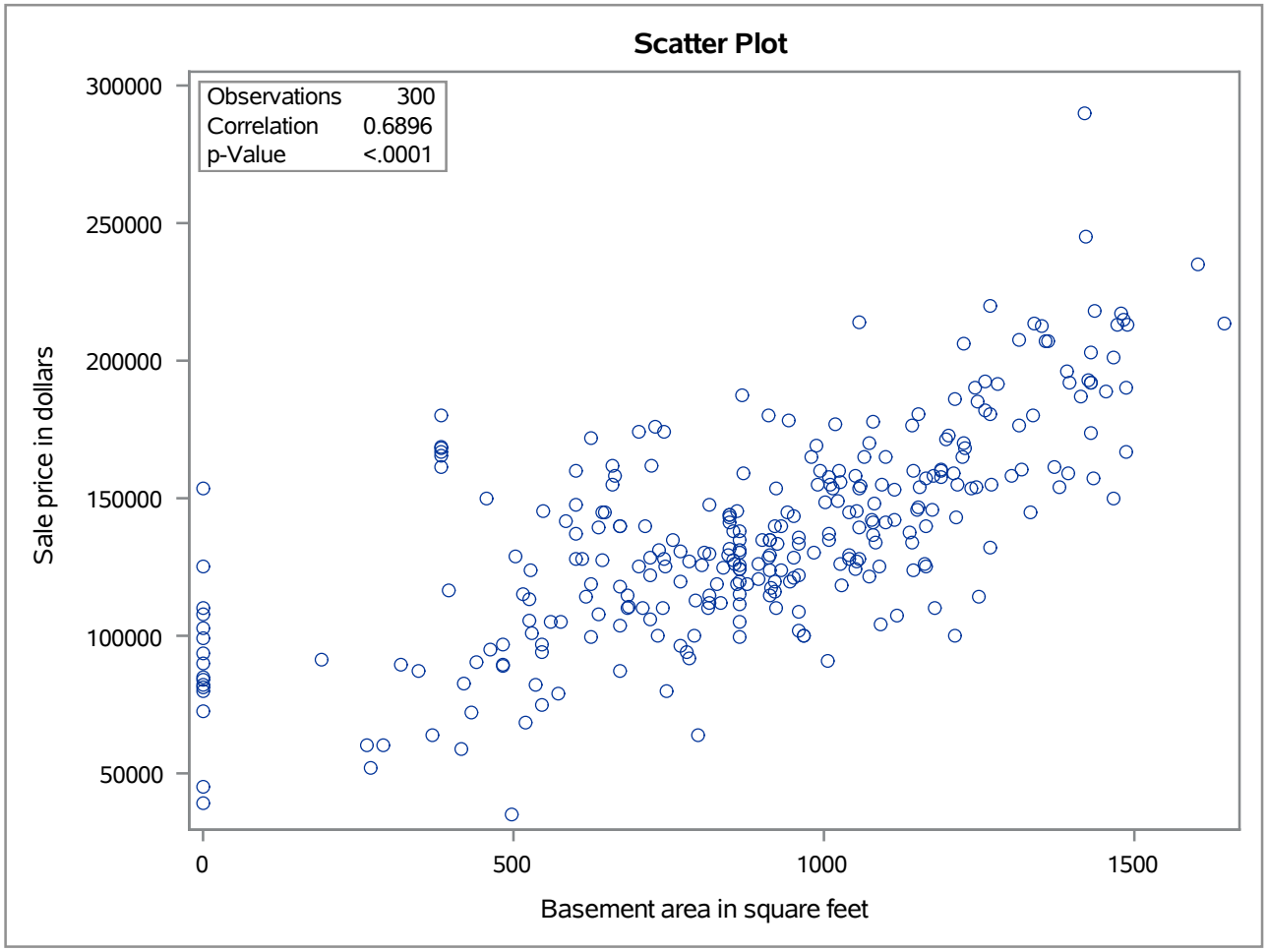
Correlations and Scatter Plots with SalePrice

The CORR Procedure



Correlations and Scatter Plots with SalePrice

The CORR Procedure



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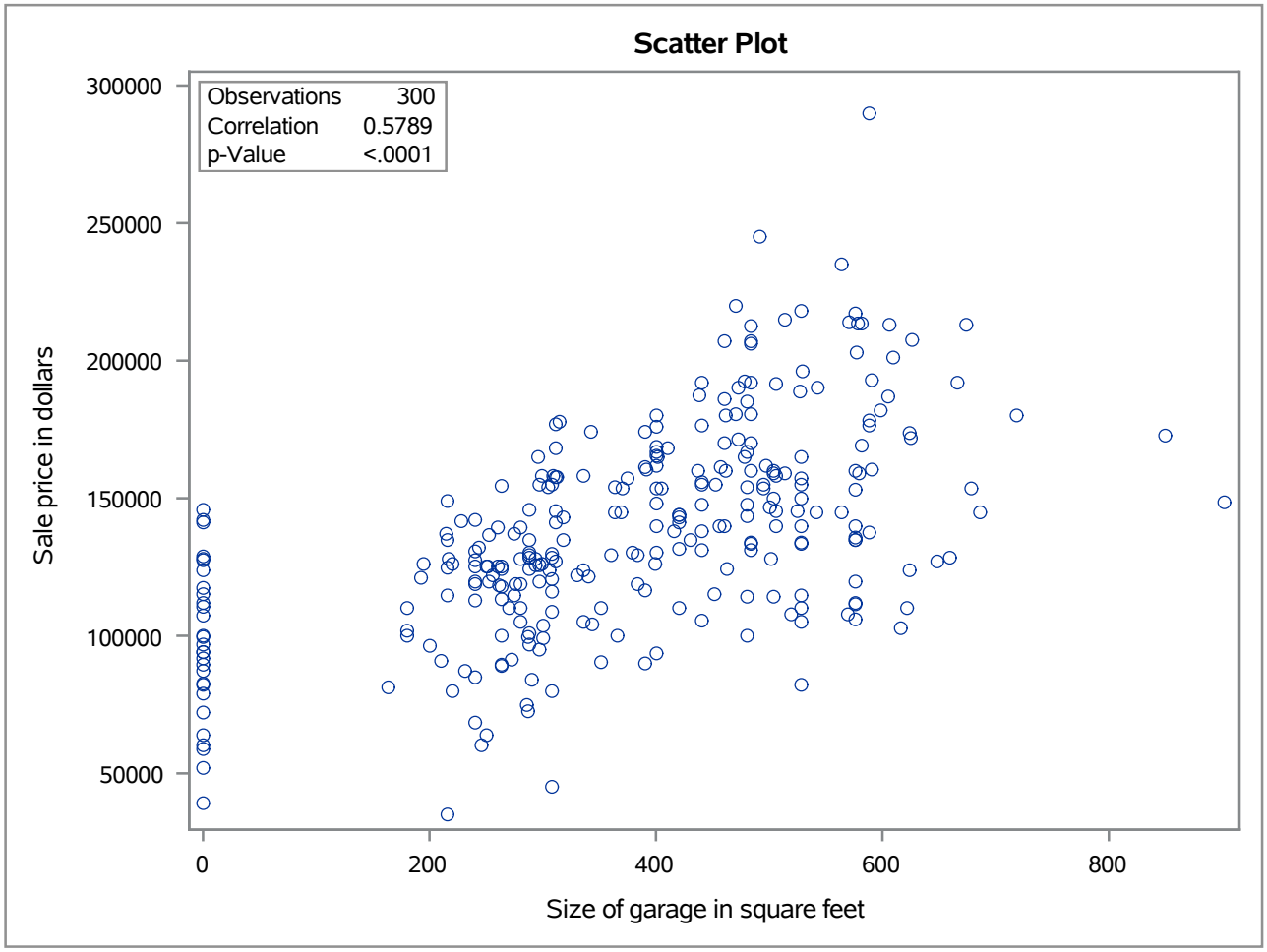

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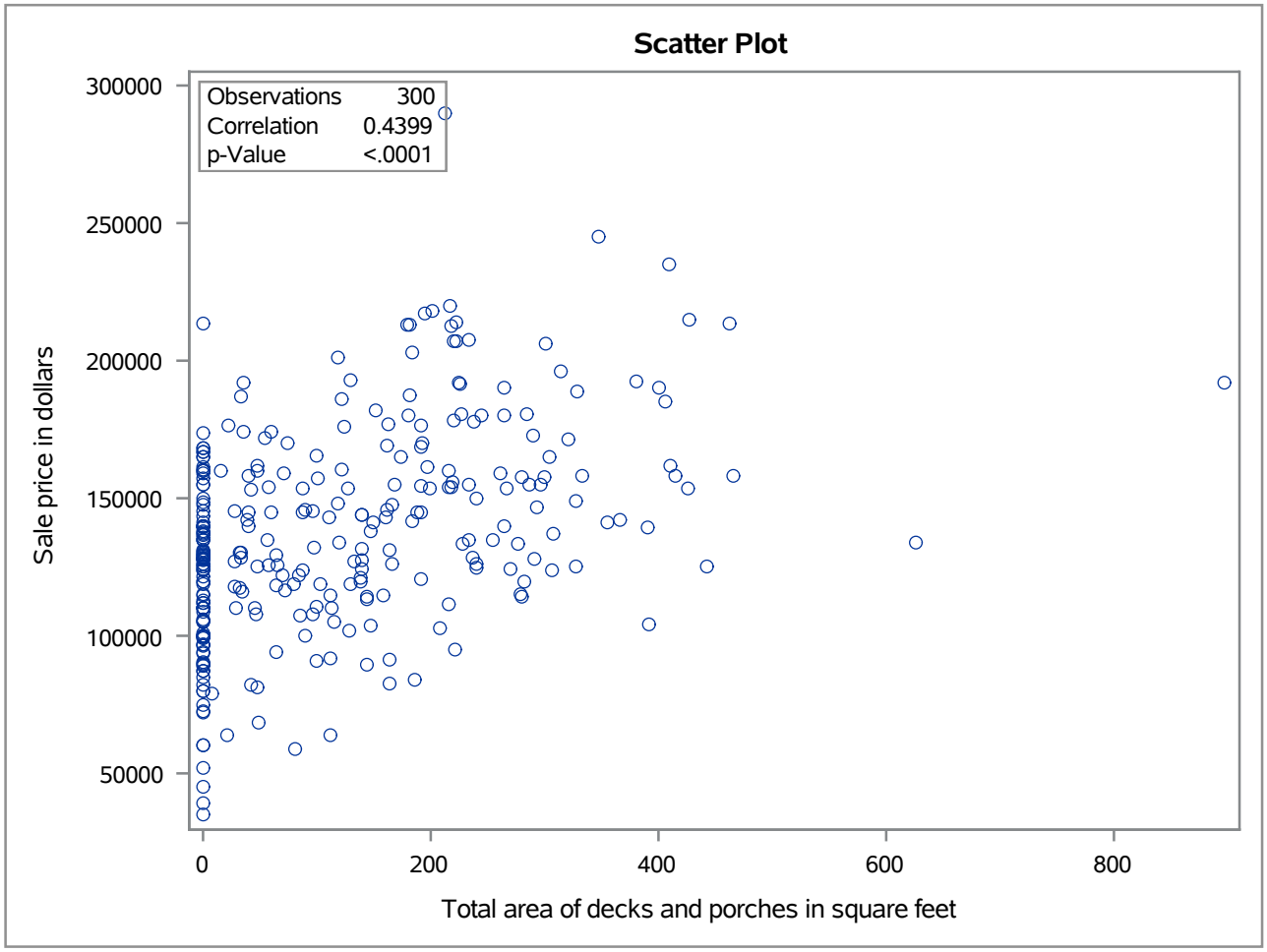

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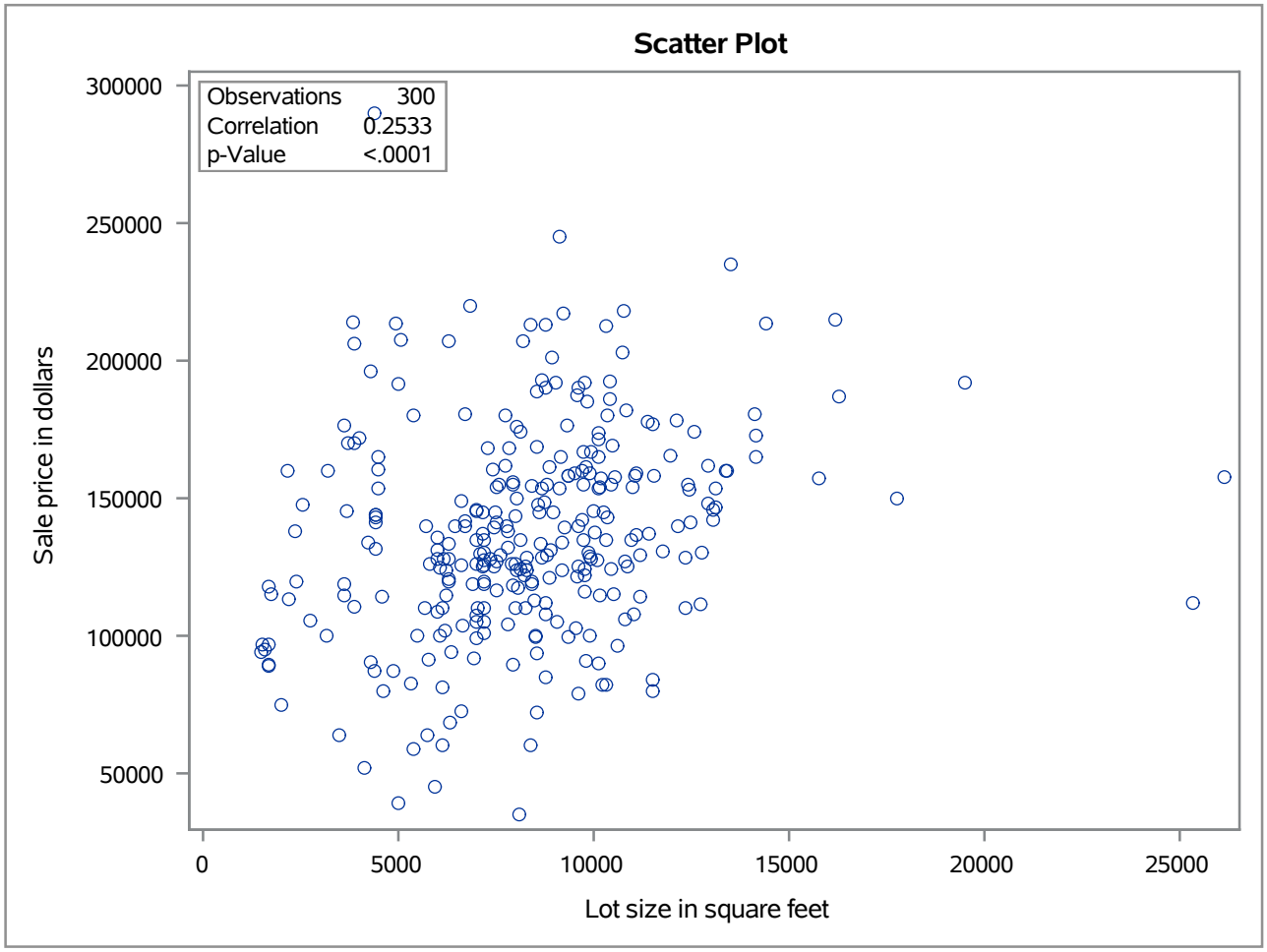

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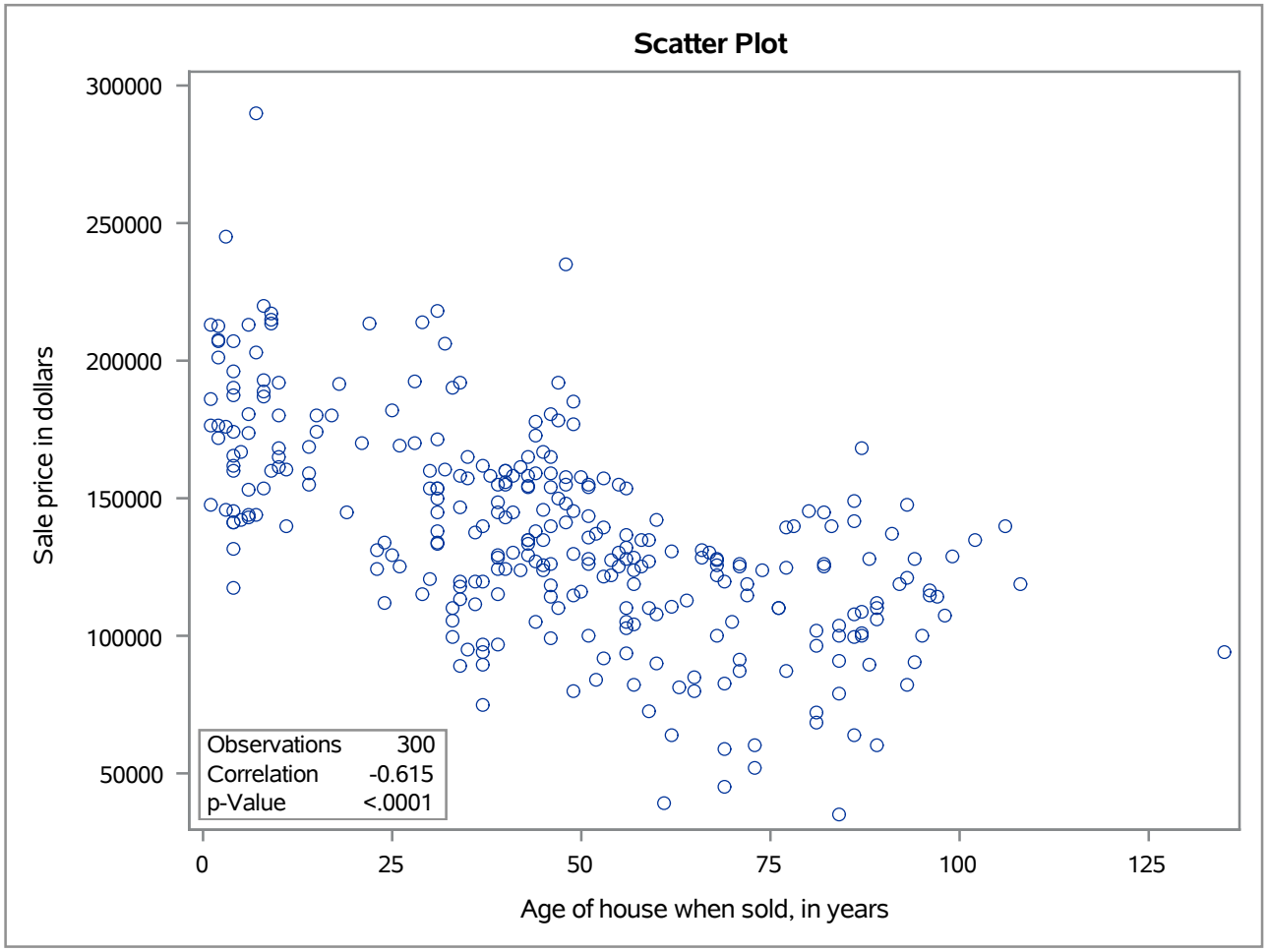

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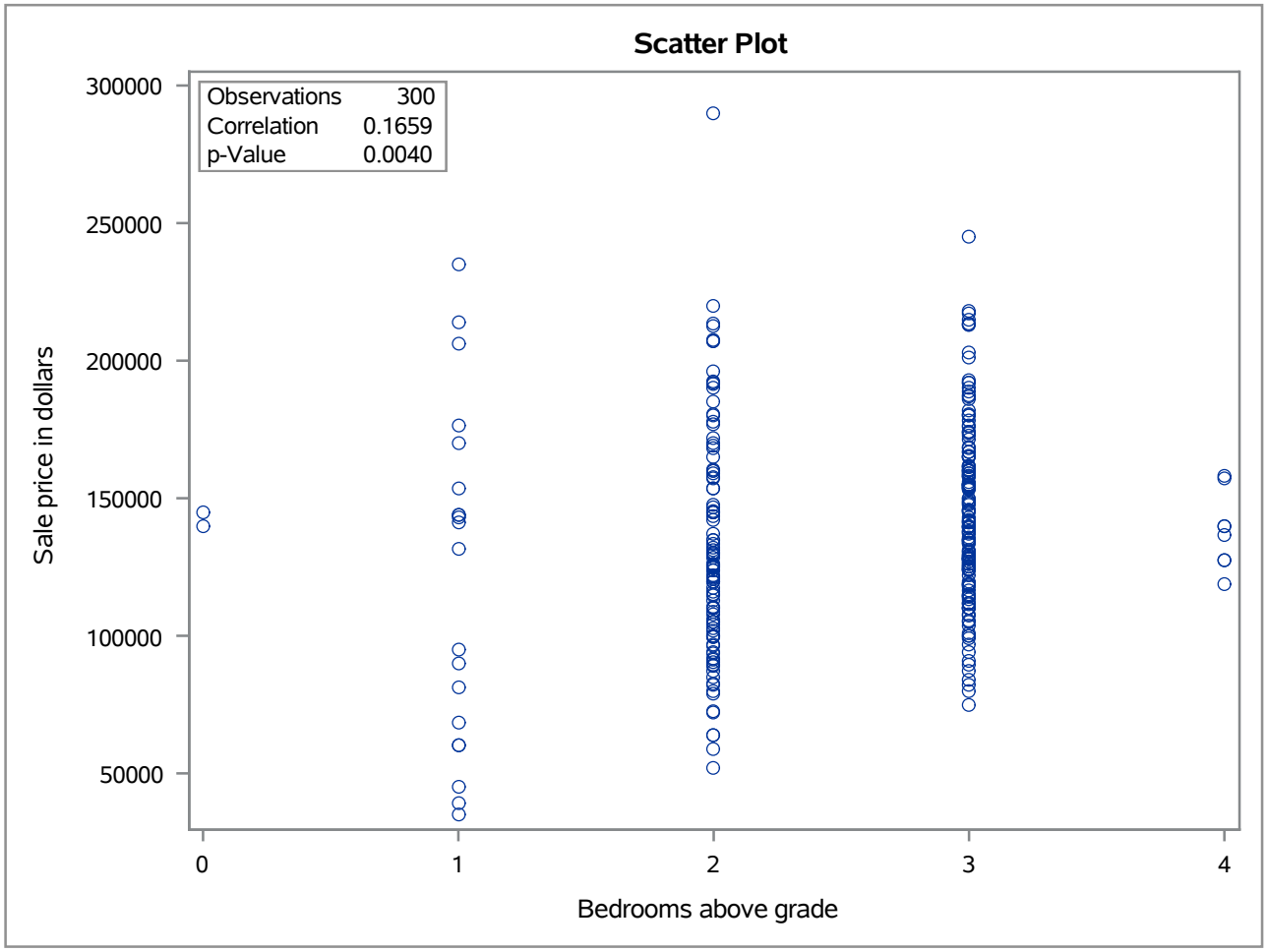

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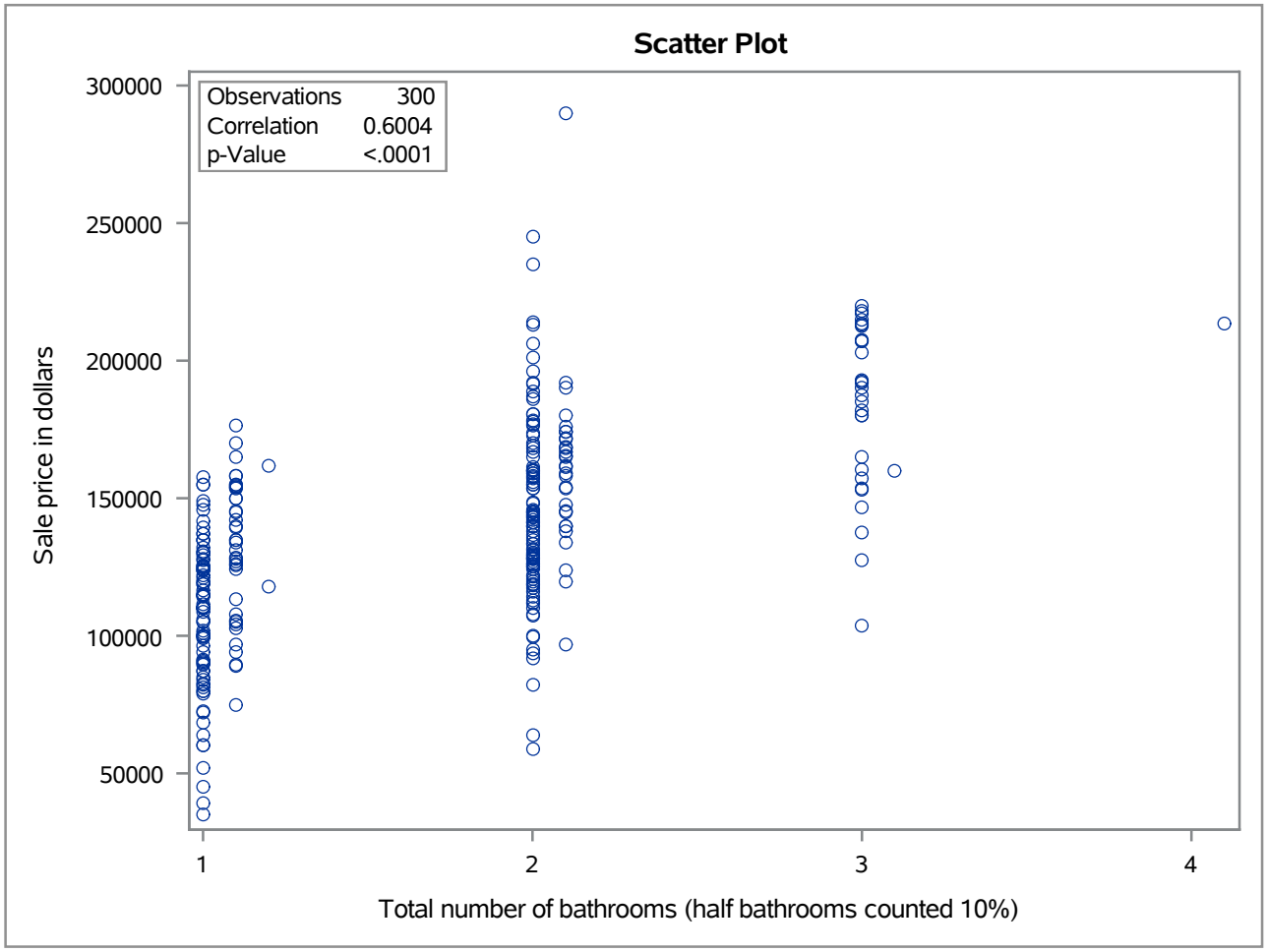

Correlations and Scatter Plot Matrix of Predictors

The CORR Procedure

8 Variables:	Gr_Liv_Area	Basement_Area	Garage_Area	Deck_Porch_Area	Lot_Area	Age_Sold	Bedroom_AbvGr	Total_Bathroom

Pearson Correlation Coefficients, N = 300
Prob > |r| under H0: Rho=0

Gr_Liv_Area **Above grade (ground) living area square feet**	Gr_Liv_Area 1.00000	Bedroom_AbvGr 0.48431 <.0001	Basement_Area 0.43985 <.0001
Basement_Area **Basement area in square feet**	Basement_Area 1.00000	Total_Bathroom 0.48500 <.0001	Gr_Liv_Area 0.43985 <.0001
Garage_Area **Size of garage in square feet**	Garage_Area 1.00000	Age_Sold -0.41346 <.0001	Total_Bathroom 0.36876 <.0001
Deck_Porch_Area **Total area of decks and porches in square feet**	Deck_Porch_Area 1.00000	Basement_Area 0.33689 <.0001	Gr_Liv_Area 0.28058 <.0001
Lot_Area **Lot size in square feet**	Lot_Area 1.00000	Bedroom_AbvGr 0.29801 <.0001	Basement_Area 0.27198 <.0001
Age_Sold **Age of house when sold, in years**	Age_Sold 1.00000	Total_Bathroom -0.52889 <.0001	Garage_Area -0.41346 <.0001
Bedroom_AbvGr **Bedrooms above grade**	Bedroom_AbvGr 1.00000	Gr_Liv_Area 0.48431 <.0001	Lot_Area 0.29801 <.0001
Total_Bathroom **Total number of bathrooms (half bathrooms counted 10%)**	Total_Bathroom 1.00000	Age_Sold -0.52889 <.0001	Basement_Area 0.48500 <.0001