

Demo: Producing Correlation Statistics and Scatter Plots Using the Correlation Analysis Task

Use the Correlation Analysis task to produce correlation statistics and scatter plots for the **ameshousing3** data. The goal is to identify, both visually and numerically, which predictors are linearly associated with **SalePrice**, as well as the strength of the relationship.

- 1. In the Navigation pane, select Tasks and Utilities.
- 2. Expand Tasks.
- 3. Expand Statistics and open the Correlation Analysis task.
- Select the stat1.ameshousing3 table.
- Assign the continuous variables (Lot_Area, Gr_Liv_Area, Bedroom_AbvGr, Garage_Area, Basement_Area, Total_Bathroom, Deck_Porch_Area, and Age_Sold) to the Analysis variable role.
- 6. Assign **SalePrice** as the Correlate with variable.
- 7. On the OPTIONS tab, under STATISTICS, use the Display statistics drop-down list and choose the **Selected statistics** option and select the **Correlations** and **Display p-value** check boxes, which might already be checked, as well as **Descriptive statistics**.
- 8. Under PLOTS, use the Type of plot drop-down list and choose **Individual scatter plots**. Ensure that the **Include inset statistics** check box is selected, and change the Number of variables to plot to 8 to generate plots for all eight variables.
- 9. Click Run.

Generated Code

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