

Demo: Performing a Pearson Chi-Square Test Using the Table Analysis Task

You know that there are possible associations between the variables **Lot_Shape_2** and **Bonus**, as well as between **Fireplaces** and **Bonus**. Now use the Table Analysis task to run a formal test to determine whether the associations are significant.

1. In the Navigation pane, select **Tasks and Utilities**.
2. Expand **Tasks**.
3. Expand **Statistics** and open the **Table Analysis** task.
4. Select the **stat1.ameshousing3** table.
5. Assign **Fireplaces** and **Lot_Shape_2** to the Row variables role, and assign **Bonus** to the Column variables role.
6. On the OPTIONS tab, expand **PLOTS** and select the **Suppress plots** check box.
7. Expand **FREQUENCY TABLE**.
8. Under Frequencies, select **Observed** and **Expected**.
9. Under Percentages, select **Cell** and **Row**.
10. Under Statistics, select **Odds ratio and relative risk (for 2X2 tables)**, in addition to **Chi-square statistics**, which should already be selected.
11. Click **Run**.

Generated Code

```
ods noproctitle;

proc freq data=STAT1.AMESHOUSSING3;
  tables (Fireplaces Lot_Shape_2) *(Bonus) / chisq relrisk expected nocol nocum plots=none;
run;
```