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/*****************************/
/* SAS Code for Chi-square Examples */
/*****************************/


/* Vacation Destination Preference Example */

data vacation;
     input place $ count;
     datalines;
Hawaii 119
Europe 394
Caribbean 130
Other 285
;


proc freq data=vacation;
     tables place / chisq testp=(18 40 12 30);
     weight count;
run;




/* Chicken Pox Vaccine Side-effects Example */

data side_effects;
        input trt $ swelling $ count;
        datalines;
vaccine major 54
vaccine minor 42
vaccine none 134
placebo major 16
placebo minor 32
placebo none 142
;


proc freq data=side_effects;
        tables trt * swelling / chisq nocol norow nocum nopercent;
        weight count;
run;
```

```
/* Satisfaction with Appearance by Age Example */

data appearance;
        input age $ satisfied $ count;
        datalines;
1 Yes 38
2 Yes 30
3 Yes 34
1 No 10
2 No 29
3 No 9
;


proc freq data=appearance;
        tables satisfied * age / chisq nocol norow nocum nopercent;
        weight count;
run;




/* About the PROC FREQ code:
> CHISQ requests the Chi-square test (test statistic and p-value)
> The TESTP= option specifies the null proportions for the null distribution in a test of goodness of fit; notice that they are ordered to match the alphabetical order of the categories (e.g. Caribbean, Europe, Hawaii, Other)
> The NOCOL … NOPERCENT options suppress the column, row, cumulative frequencies and percentages (this was done for the sake of shortening the output) */
```