```
. table age dead smoker [freq=y]

-----------------------------------
          |     smoker and dead
          | --- no ---    --- yes --
      age |   no   yes      no   yes
----------+------------------------
    18-24 |   61     1      53     2
    25-34 |  152     5     121     3
    35-44 |  114     7      95    14
    45-54 |   66    12     103    27
    55-64 |   81    40      64    51
    65-74 |   28   101       7    29
      75+ |         64            13
-----------------------------------


. by age, sort: tabulate smoker dead [freq=y], cel

-------------------------------------------------------------------------------
-> age = 18-24

           |         dead
    smoker |        no        yes |     Total
-----------+----------------------+----------
        no |        61          1 |        62
           |     52.14       0.85 |     52.99
-----------+----------------------+----------
       yes |        53          2 |        55
           |     45.30       1.71 |     47.01
-----------+----------------------+----------
     Total |       114          3 |       117
           |     97.44       2.56 |    100.00


-------------------------------------------------------------------------------
-> age = 25-34

           |         dead
    smoker |        no        yes |     Total
-----------+----------------------+----------
        no |       152          5 |       157
           |     54.09       1.78 |     55.87
-----------+----------------------+----------
       yes |       121          3 |       124
           |     43.06       1.07 |     44.13
-----------+----------------------+----------
     Total |       273          8 |       281
           |     97.15       2.85 |    100.00


-------------------------------------------------------------------------------
-> age = 35-44

           |         dead
    smoker |        no        yes |     Total
-----------+----------------------+----------
        no |       114          7 |       121
           |     49.57       3.04 |     52.61
-----------+----------------------+----------
       yes |        95         14 |       109
           |     41.30       6.09 |     47.39
-----------+----------------------+----------
     Total |       209         21 |       230
           |     90.87       9.13 |    100.00
```

-> age = 45-54

smoker	dead no	dead yes	Total
no	66	12	78
	31.73	5.77	37.50
yes	103	27	130
	49.52	12.98	62.50
Total	169	39	208
	81.25	18.75	100.00

-> age = 55-64

smoker	dead no	dead yes	Total
no	81	40	121
	34.32	16.95	51.27
yes	64	51	115
	27.12	21.61	48.73
Total	145	91	236
	61.44	38.56	100.00

-> age = 65-74

smoker	dead no	dead yes	Total
no	28	101	129
	16.97	61.21	78.18
yes	7	29	36
	4.24	17.58	21.82
Total	35	130	165
	21.21	78.79	100.00

-> age = 75+

smoker	dead yes	Total
no	64	64
	83.12	83.12
yes	13	13
	16.88	16.88
Total	77	77
	100.00	100.00

. by age, sort: tabulate smoker dead [freq=y], row nofreq

-> age = 18-24

smoker	dead: no	dead: yes	Total
no	98.39	1.61	100.00
yes	96.36	3.64	100.00
Total	97.44	2.56	100.00

-> age = 25-34

smoker	dead: no	dead: yes	Total
no	96.82	3.18	100.00
yes	97.58	2.42	100.00
Total	97.15	2.85	100.00

-> age = 35-44

smoker	dead: no	dead: yes	Total
no	94.21	5.79	100.00
yes	87.16	12.84	100.00
Total	90.87	9.13	100.00

-> age = 45-54

smoker	dead: no	dead: yes	Total
no	84.62	15.38	100.00
yes	79.23	20.77	100.00
Total	81.25	18.75	100.00

-> age = 55-64

smoker	dead: no	dead: yes	Total
no	66.94	33.06	100.00
yes	55.65	44.35	100.00
Total	61.44	38.56	100.00

-> age = 65-74

smoker	dead: no	dead: yes	Total
no	21.71	78.29	100.00
yes	19.44	80.56	100.00

```
     Total |     21.21      78.79 |    100.00

------------------------------------------------------------------------------
-> age = 75+

           |    dead
    smoker |       yes |     Total
-----------+-----------+----------
        no |    100.00 |    100.00
       yes |    100.00 |    100.00
-----------+-----------+----------
     Total |    100.00 |    100.00



. table smoker dead [freq=y]

----------------------
           |    dead
   smoker |   no   yes
----------+-----------
       no |  502   230
      yes |  443   139
----------------------

. tabulate smoker dead [freq=y], cel nofreq

           |         dead
    smoker |        no        yes |     Total
-----------+----------------------+----------
        no |     38.20      17.50 |     55.71
       yes |     33.71      10.58 |     44.29
-----------+----------------------+----------
     Total |     71.92      28.08 |    100.00


. tabulate smoker dead [freq=y], row nofreq

           |         dead
    smoker |        no        yes |     Total
-----------+----------------------+----------
        no |     68.58      31.42 |    100.00
       yes |     76.12      23.88 |    100.00
-----------+----------------------+----------
     Total |     71.92      28.08 |    100.00


********************R-PROGRAM*****************************************************
**

library(faraway)
data(femsmoke)
out<-xtabs(y~smoker+dead+age)
mantelhaen.test(out))

        Mantel-Haenszel chi-squared test with continuity correction

data:  out
Mantel-Haenszel X-squared = 5.435, df = 1, p-value = 0.01974
alternative hypothesis: true common odds ratio is not equal to 1
95 percent confidence interval:
 1.081414 2.158529
sample estimates:
common odds ratio
          1.52783
```

**********STATA-PROGRAM**********
***

```
. cc xdead xsmoke [fw=y], by(xage)

             xage |       OR       [95% Conf. Interval]   M-H Weight
------------------+-------------------------------------------------
                1 |   2.301887      .1159665   137.9778     .4529915 (exact)
                2 |    .753719      .1148973   3.965215     2.153025 (exact)
                3 |        2.4      .8610649   7.299037     2.891304 (exact)
                4 |   1.441748      .6507813   3.347026     5.942308 (exact)
                5 |   1.613672      .9202722   2.833498     10.84746 (exact)
                6 |   1.148515      .4307484    3.43532     4.284848 (exact)
------------------+-------------------------------------------------
            Crude |   .8601267      .6539689   1.129911               (exact)
      M-H combined |    1.52783      1.081414   2.158529
-------------------------------------------------------------------
Test of homogeneity (M-H)      chi2(5) =     2.32  Pr>chi2 = 0.8029

                    Test that combined OR = 1:
                                Mantel-Haenszel chi2(1) =      5.84
                                                Pr>chi2 =    0.0156
```