```
#copy link location of wine & music data
#and paste into R;
# call the dataframe winemusic
winemusic=read.csv(file="…")
str(winemusic)
#now get rid of the first column wm=winemusic[,-1]
#all the rows, not col.1
# now manipulate wm a little to get it into
# the right form...first as a dataframe, then
# as a table
WM=as.data.frame(wm,responseName="freq")
WMtable=xtabs(freq~.,WM)
WMtable
#looks like our tables now
is.table(WMtable)
# yes, it is...
#now we can find the marginal sums
addmargins(WMtable)
#now get all the proportions (total and
#wrt cols and rows...
prop.table(WMtable); prop.table(WMtable,1)
prop.table(WMtable,2)
#you can also get the marginal proportions
#by combining the addmargins and the
#prop.table commands as follows:
addmargins(prop.table(WMtable,1)) #rows
addmargins(prop.table(WMtable,2)) #cols
#do the chi square test on the table
chisq.test(WMtable)
#get the expected values
chisq.test(WMtable)$expected  #to get the expecteds
```