## P8131 HW4

## Shihui Zhu, sz3029

1. Summarize the data using appropriate tables of percentages to show the pairwise associations between the levels of satisfaction and 1) contact with other residents and 2) type of housing. Comment on patterns in the associations.

Produce Summary Table:

```
##
##
##
    Cell Contents
## |-----|
## | Chi-square contribution |
     N / Row Total |
N / Col Total |
## |
        N / Table Total |
## Total Observations in Table: 1681
##
##
##
               | data1$ApartmentType
## data1$Satisfaction | Apartment | House | Tower Block | Row Total |
  -----|-----|-----|
                               166 |
##
            High |
                      302 |
                                         200 l
                             7.437 | 10.600 |
0.249 | 0.299 |
                     0.013 |
##
                     0.452 |
                                        0.500 |
                              0.322 |
##
                     0.395 |
                                      0.119 |
                     0.180 |
                              0.099 |
## -----|----|-----|
            Low |
                               197 | 99 | 567 |
                     271 |
                   0.652 | 3.027 | 9.563 |
##
```

##	I	0.478	0.347	0.175	0.337
##	I	0.354	0.382	0.247	1
##	I	0.161	0.117	0.059	1
## -					
##	Median	192	153	101	446
##	I	0.593	1.892	0.248	1
##	I	0.430	0.343	0.226	0.265
##	I	0.251	0.297	0.253	1
##	I	0.114	0.091	0.060	1
## -					
##	Column Total	765 l	516	400	1681
##	I	0.455	0.307	0.238	1
## -					

## ##

## ## ##

Cell Contents

##

## Total Observations in Table: 1681

## ##

##		data1\$Conta	act	
##	data1\$Satisfaction	High	Low	Row Total
##				
##	High	395	273	668
##		0.278	0.377	l I
##		0.591	0.409	0.397
##		0.408	0.383	l
##		0.235	0.162	
##				
##	Low	305	262	567
##		1.416	1.923	0 227 1
##		0.538	0.462	0.337
##		0.315     0.181	0.367   0.156	
##	 		0.156	 
##	Median	   268	178	   446
##	riedian	0.486	0.660	440
##		0.601	0.399	0.265
##		0.277	0.250	0.200
##		0.159	0.106	i i
##				
##	Column Total	968	713	1681
##	j	0.576	0.424	ĺ

```
## -----|-----|-----|
##
##
```

gmodels::CrossTable(data1\$Satisfaction, data1\$ApartmentType)

##
##
## Cell Contents
## |------|
## | N |
## | Chi-square contribution |
## | N / Row Total |
## | N / Col Total |
## | N / Table Total |
## |------|
##

##

## Total Observations in Table: 1681

## ##

##		data1\$ApartmentType			
##	data1\$Satisfaction	Apartment	House	Tower Block	Row Total
##					
##	High	302	166	200	668
##		0.013	7.437	10.600	1
##		0.452	0.249	0.299	0.397
##		0.395	0.322	0.500	1
##		0.180	0.099	0.119	1
##					
##	Low	271	197	99	567
##		0.652	3.027	9.563	1
##		0.478	0.347	0.175	0.337
##		0.354	0.382	0.247	1
##		0.161	0.117	0.059	1
##					
##	Median	192	153	101	446
##		0.593	1.892	0.248	
##		0.430	0.343	0.226	0.265
##		0.251	0.297	0.253	
##		0.114	0.091	0.060	
##					
##	Column Total	765	516	400	1681
##		0.455	0.307	0.238	
##		l		l	l l

## ##