Unit 9 activities

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Unit 9 - data activity

Using the Crime Survey for England and Wales, 2013-2014: Unrestricted Access Teaching Dataset, perform the following activities:

Create a crosstab to assess how individuals' experience of any crime in the previous 12 months bosvictim vary by age group agegrp7. Create the crosstab with bosvictim in the rows and agegrp7 in the columns, and produce row percentages, rounded to 2 decimal places. Looking at the crosstab you have produced, which age groups were the most likely, and least likely, to be victims of crime?

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Initial setup and loading data

format="SPSS")

```
# initial setup

library(haven)
library(skimr)
library(tidyverse)

crime_data<-read_sav("C:/Users/guilhermep/Documents/PgDip/Coding/Module 2/pgdip_module2_practice/Datase</pre>
```

Crosstab

```
##
##
     Cell Contents
##
##
                    Count |
##
               Row Percent |
##
## Total Observations in Table: 8843
##
##
                      | crime_data$agegrp7
  crime_data$bcsvictim
                              1 |
                                         2
                                                    3 I
##
                    0 |
##
                            523
                                      1049
                                                 1194
                                                            1242
                                                                       1226
                                                                                  1194
                          7.011% |
                                               16.005% |
                                                                                16.005% |
##
                                    14.062% |
                                                          16.649% |
                                                                     16.434% |
##
                                                             273 |
##
                            162 |
                                       310
                                                  248
                                                                        202 |
                                                                                   121
##
                         11.714% |
                                    22.415% |
                                               17.932% |
                                                          19.740% |
                                                                     14.606% |
                                                                                 8.749% |
##
                                      1359
         Column Total |
                            685
                                                 1442
                                                            1515
                                                                       1428
                                                                                  1315
##
     ##
##
round(prop.table(table(crime_data$bcsvictim,
          crime_data$agegrp7),1)*100,2)
##
##
               2
                          4
                                5
                                     6
                                           7
          1
                     3
##
      7.01 14.06 16.01 16.65 16.43 16.01 13.83
    1 11.71 22.42 17.93 19.74 14.61 8.75 4.84
##
attr(crime_data$agegrp7, "labels")
                                     75+
## 16-24 25-34 35-44 45-54 55-64 65-74
```

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From the contigency table and proportions produced, people in age group 2 (25-34) were the most likely and those in age group 7 (75+) the least likely to have been a victim of crime in the past year.

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Python

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