## Holden Herrell IST687 HW5

```
#Step 1
url<-"http://opendata.maryland.gov/resource/pdvh-tf2u.json"</pre>
df<-read.socrata(url)
#Step 2
namesOfColumns <- c("ACC_DATE","ACC_TIME","ACC_TIME_CODE","BARRACK","CASE_NUMBER","CITY_NAME",</pre>
                     "COLLISION_WITH_1", "COLLISION_WITH_2", "COUNTY_CODE", "COUNTY_NAME", "DAY_OF_WEEK",
                     "DIST_DIRECTION", "DIST_FROM_INTERSECT", "INJURY", "INTERSECT_ROAD", "PROP_DEST",
                     "ROAD", "VEHICLE COUNT")
cleandf<-function(df, namesOfColumns){</pre>
  colnames(df)<-namesOfColumns</pre>
  return(df)
df<-cleandf(df, namesOfColumns)</pre>
#Step 3
df$DAY_OF_WEEK <-gsub(" ","",df$DAY_OF_WEEK)</pre>
SundayAccidents<-sqldf("select count(DAY_OF_WEEK) as 'Accidents', DAY_OF_WEEK as 'Day'
                        from df where DAY OF WEEK = 'SUNDAY'")
SundayAccidents
     Accidents
                   Day
## 1
          2373 SUNDAY
AccidentsWithInjury<-sqldf("select count(*) as 'Accidents with Injuries' from df where INJURY='YES' ")
AccidentsWithInjury
     Accidents with Injuries
## 1
                         6433
DailyInjuries <- sqldf(" select DAY_OF_WEEK as 'Day', count(DAY_OF_WEEK) as 'Accidents'
                       from df where INJURY='YES' group by DAY_OF_WEEK")
DailyInjuries
##
           Day Accidents
## 1
        FRIDAY
                     1043
## 2
        MONDAY
                      915
## 3 SATURDAY
                      950
```

```
## 4
        SUNDAY
                     818
## 5 THURSDAY
                     968
## 6 TUESDAY
                     843
## 7 WEDNESDAY
                     896
#Step 4
tapply(df$CASE_NUMBER, df$DAY_OF_WEEK=='SUNDAY',length)
## FALSE TRUE
## 16265 2373
tapply(df$CASE_NUMBER, df$INJURY == 'YES', length)
## FALSE TRUE
## 12204 6433
injuries<-df[which(df$INJURY=='YES'),]</pre>
tapply(injuries$CASE_NUMBER, injuries$DAY_OF_WEEK, length)
##
                MONDAY SATURDAY
                                    SUNDAY THURSDAY
                                                       TUESDAY WEDNESDAY
      FRIDAY
##
        1043
                   915
                             950
                                       818
                                                 968
                                                           843
                                                                     896
```