5. All Decades Summary Table

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2022-05-07

This code reads each of the Years per Decade summary tables created in the previous piece of code to create an overall summary table.

# read summary table files  
sum\_1880\_1889\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1880\_1889/1880\_1889\_summary\_table.csv")  
sum\_1890\_1899\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1890\_1899/1890\_1899\_summary\_table.csv")  
sum\_1900\_1909\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1900\_1909/1900\_1909\_summary\_table.csv")  
sum\_1910\_1919\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1910\_1919/1910\_1919\_summary\_table.csv")  
sum\_1920\_1929\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1920\_1929/1920\_1929\_summary\_table.csv")  
sum\_1930\_1939\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1930\_1939/1930\_1939\_summary\_table.csv")  
sum\_1940\_1949\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1940\_1949/1940\_1949\_summary\_table.csv")  
sum\_1950\_1959\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1950\_1959/1950\_1959\_summary\_table.csv")  
sum\_1960\_1969\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1960\_1969/1960\_1969\_summary\_table.csv")  
sum\_1970\_1979\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1970\_1979/1970\_1979\_summary\_table.csv")  
sum\_1980\_1989\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1980\_1989/1980\_1989\_summary\_table.csv")  
sum\_1990\_1999\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/1990\_1999/1990\_1999\_summary\_table.csv")  
sum\_2000\_2009\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/2000\_2009/2000\_2009\_summary\_table.csv")  
sum\_2010\_2020\_df<-read.csv("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/2010\_2020/2010\_2020\_summary\_table.csv")  
  
#write\_summary table vectors for each decade  
tot\_1880\_1889\_summary<-c("1880-1889",sum\_1880\_1889\_df[10,3],sum(sum\_1880\_1889\_df[6]), sum(sum\_1880\_1889\_df[7]),sum(sum\_1880\_1889\_df[6])/sum(sum\_1880\_1889\_df[7]),sum(sum\_1880\_1889\_df[9]),sum(sum\_1880\_1889\_df[10]), sum(sum\_1880\_1889\_df[9])/sum(sum\_1880\_1889\_df[10]),sum(sum\_1880\_1889\_df[12]),sum(sum\_1880\_1889\_df[13]),sum(sum\_1880\_1889\_df[12])/sum(sum\_1880\_1889\_df[13]))  
tot\_1890\_1899\_summary<-c("1890-1899",sum\_1890\_1899\_df[10,3],sum(sum\_1890\_1899\_df[6]),sum(sum\_1890\_1899\_df[7]), sum(sum\_1890\_1899\_df[6])/sum(sum\_1890\_1899\_df[7]),sum(sum\_1890\_1899\_df[9]),sum(sum\_1890\_1899\_df[10]), sum(sum\_1890\_1899\_df[9])/sum(sum\_1890\_1899\_df[10]),sum(sum\_1890\_1899\_df[12]),sum(sum\_1890\_1899\_df[13]),sum(sum\_1890\_1899\_df[12])/sum(sum\_1890\_1899\_df[13]))  
tot\_1900\_1909\_summary<-c("1900-1909",sum\_1900\_1909\_df[10,3],sum(sum\_1900\_1909\_df[6]),sum(sum\_1900\_1909\_df[7]), sum(sum\_1900\_1909\_df[6])/sum(sum\_1900\_1909\_df[7]),sum(sum\_1900\_1909\_df[9]),sum(sum\_1900\_1909\_df[10]), sum(sum\_1900\_1909\_df[9])/sum(sum\_1900\_1909\_df[10]),sum(sum\_1900\_1909\_df[12]),sum(sum\_1900\_1909\_df[13]),sum(sum\_1900\_1909\_df[12])/sum(sum\_1900\_1909\_df[13]))  
tot\_1910\_1919\_summary<-c("1910-1919",sum\_1910\_1919\_df[10,3],sum(sum\_1910\_1919\_df[6]),sum(sum\_1910\_1919\_df[7]), sum(sum\_1910\_1919\_df[6])/sum(sum\_1910\_1919\_df[7]),sum(sum\_1910\_1919\_df[9]),sum(sum\_1910\_1919\_df[10]), sum(sum\_1910\_1919\_df[9])/sum(sum\_1910\_1919\_df[10]),sum(sum\_1910\_1919\_df[12]),sum(sum\_1910\_1919\_df[13]),sum(sum\_1910\_1919\_df[12])/sum(sum\_1910\_1919\_df[13]))  
tot\_1920\_1929\_summary<-c("1920-1929",sum\_1920\_1929\_df[10,3],sum(sum\_1920\_1929\_df[6]),sum(sum\_1920\_1929\_df[7]),sum(sum\_1920\_1929\_df[6])/sum(sum\_1920\_1929\_df[7]),sum(sum\_1920\_1929\_df[9]),sum(sum\_1920\_1929\_df[10]), sum(sum\_1920\_1929\_df[9])/sum(sum\_1920\_1929\_df[10]),sum(sum\_1920\_1929\_df[12]),sum(sum\_1920\_1929\_df[13]),sum(sum\_1920\_1929\_df[12])/sum(sum\_1920\_1929\_df[13]))  
tot\_1930\_1939\_summary<-c("1930-1939",sum\_1930\_1939\_df[10,3],sum(sum\_1930\_1939\_df[6]),sum(sum\_1930\_1939\_df[7]), sum(sum\_1930\_1939\_df[6])/sum(sum\_1930\_1939\_df[7]),sum(sum\_1930\_1939\_df[9]),sum(sum\_1930\_1939\_df[10]), sum(sum\_1930\_1939\_df[9])/sum(sum\_1930\_1939\_df[10]),sum(sum\_1930\_1939\_df[12]),sum(sum\_1930\_1939\_df[13]),sum(sum\_1930\_1939\_df[12])/sum(sum\_1930\_1939\_df[13]))  
tot\_1940\_1949\_summary<-c("1940-1949",sum\_1940\_1949\_df[10,3],sum(sum\_1940\_1949\_df[6]),sum(sum\_1940\_1949\_df[7]), sum(sum\_1940\_1949\_df[6])/sum(sum\_1940\_1949\_df[7]),sum(sum\_1940\_1949\_df[9]),sum(sum\_1940\_1949\_df[10]),sum(sum\_1940\_1949\_df[9])/sum(sum\_1940\_1949\_df[10]),sum(sum\_1940\_1949\_df[12]),sum(sum\_1940\_1949\_df[13]),sum(sum\_1940\_1949\_df[12])/sum(sum\_1940\_1949\_df[13]))  
tot\_1950\_1959\_summary<-c("1950-1959",sum\_1950\_1959\_df[10,3],sum(sum\_1950\_1959\_df[6]),sum(sum\_1950\_1959\_df[7]),sum(sum\_1950\_1959\_df[6])/sum(sum\_1950\_1959\_df[7]),sum(sum\_1950\_1959\_df[9]),sum(sum\_1950\_1959\_df[10]),sum(sum\_1950\_1959\_df[9])/sum(sum\_1950\_1959\_df[10]),sum(sum\_1950\_1959\_df[12]),sum(sum\_1950\_1959\_df[13]),sum(sum\_1950\_1959\_df[12])/sum(sum\_1950\_1959\_df[13]))  
tot\_1960\_1969\_summary<-c("1960-1969",sum\_1960\_1969\_df[10,3],sum(sum\_1960\_1969\_df[6]),sum(sum\_1960\_1969\_df[7]),sum(sum\_1960\_1969\_df[6])/sum(sum\_1960\_1969\_df[7]),sum(sum\_1960\_1969\_df[9]),sum(sum\_1960\_1969\_df[10]),sum(sum\_1960\_1969\_df[9])/sum(sum\_1960\_1969\_df[10]),sum(sum\_1960\_1969\_df[12]),sum(sum\_1960\_1969\_df[13]),sum(sum\_1960\_1969\_df[12])/sum(sum\_1960\_1969\_df[13]))  
tot\_1970\_1979\_summary<-c("1970-1979",sum\_1970\_1979\_df[10,3],sum(sum\_1970\_1979\_df[6]),sum(sum\_1970\_1979\_df[7]),sum(sum\_1970\_1979\_df[6])/sum(sum\_1970\_1979\_df[7]),sum(sum\_1970\_1979\_df[9]),sum(sum\_1970\_1979\_df[10]),sum(sum\_1970\_1979\_df[9])/sum(sum\_1970\_1979\_df[10]),sum(sum\_1970\_1979\_df[12]),sum(sum\_1970\_1979\_df[13]),sum(sum\_1970\_1979\_df[12])/sum(sum\_1970\_1979\_df[13]))  
tot\_1980\_1989\_summary<-c("1980-1989",sum\_1980\_1989\_df[10,3],sum(sum\_1980\_1989\_df[6]),sum(sum\_1980\_1989\_df[7]),sum(sum\_1980\_1989\_df[6])/sum(sum\_1980\_1989\_df[7]),sum(sum\_1980\_1989\_df[9]),sum(sum\_1980\_1989\_df[10]),sum(sum\_1980\_1989\_df[9])/sum(sum\_1980\_1989\_df[10]),sum(sum\_1980\_1989\_df[12]),sum(sum\_1980\_1989\_df[13]),sum(sum\_1980\_1989\_df[12])/sum(sum\_1980\_1989\_df[13]))  
tot\_1990\_1999\_summary<-c("1990-1999",sum\_1990\_1999\_df[10,3],sum(sum\_1990\_1999\_df[6]),sum(sum\_1990\_1999\_df[7]),sum(sum\_1990\_1999\_df[6])/sum(sum\_1990\_1999\_df[7]),sum(sum\_1990\_1999\_df[9]),sum(sum\_1990\_1999\_df[10]),sum(sum\_1990\_1999\_df[9])/sum(sum\_1990\_1999\_df[10]),sum(sum\_1990\_1999\_df[12]),sum(sum\_1990\_1999\_df[13]),sum(sum\_1990\_1999\_df[12])/sum(sum\_1990\_1999\_df[13]))  
tot\_2000\_2009\_summary<-c("2000-2009",sum\_2000\_2009\_df[10,3],sum(sum\_2000\_2009\_df[6]),sum(sum\_2000\_2009\_df[7]),sum(sum\_2000\_2009\_df[6])/sum(sum\_2000\_2009\_df[7]),sum(sum\_2000\_2009\_df[9]),sum(sum\_2000\_2009\_df[10]),sum(sum\_2000\_2009\_df[9])/sum(sum\_2000\_2009\_df[10]),sum(sum\_2000\_2009\_df[12]),sum(sum\_2000\_2009\_df[13]),sum(sum\_2000\_2009\_df[12])/sum(sum\_2000\_2009\_df[13]))  
tot\_2010\_2020\_summary<-c("2010-2020",sum\_2010\_2020\_df[10,3],sum(sum\_2010\_2020\_df[6]),sum(sum\_2010\_2020\_df[7]),sum(sum\_2010\_2020\_df[6])/sum(sum\_2010\_2020\_df[7]),sum(sum\_2010\_2020\_df[9]),sum(sum\_2010\_2020\_df[10]),sum(sum\_2010\_2020\_df[9])/sum(sum\_2010\_2020\_df[10]),sum(sum\_2010\_2020\_df[12]),sum(sum\_2010\_2020\_df[13]),sum(sum\_2010\_2020\_df[12])/sum(sum\_2010\_2020\_df[13]))  
#--- Assemble table for all decades  
decades\_table<-t(data.frame(tot\_1880\_1889\_summary,tot\_1890\_1899\_summary,tot\_1900\_1909\_summary,tot\_1910\_1919\_summary,tot\_1920\_1929\_summary,tot\_1930\_1939\_summary,tot\_1940\_1949\_summary,tot\_1950\_1959\_summary,tot\_1960\_1969\_summary,tot\_1970\_1979\_summary,tot\_1980\_1989\_summary,tot\_1990\_1999\_summary,tot\_2000\_2009\_summary,tot\_2010\_2020\_summary))  
colnames(decades\_table)<-c("Years","# of GN Names","F occurrances of GN names","Total F occurrances","Ratio of F GN Occur to Total F Occur","M occurrances of GN names","Total M occurrances","Ratio of M GN Occur to Total M Occur","Total GN Occurrances","Total Occurrances","Ratio of GN Occurrances to Total Occurrances")  
rownames(decades\_table)<-NULL  
#save to data file  
write.csv(x=decades\_table,file=("C:/Users/shawn/OneDrive/Shawn/CSU\_global/MIS581/project\_r\_code/name\_files/all\_decades\_summary\_table.csv"))

The All Decades Summary Table that weas saved to CSV above is shown here. Each row is wrapper around due to the size of the table.

head(decades\_table,20)

## Years # of GN Names F occurrances of GN names Total F occurrances  
## [1,] "1880-1889" "140" "683748" "1301480"   
## [2,] "1890-1899" "143" "1180592" "2171767"   
## [3,] "1900-1909" "134" "1442681" "2831578"   
## [4,] "1910-1919" "116" "2074047" "7748618"   
## [5,] "1920-1929" "138" "4552460" "11300635"   
## [6,] "1930-1939" "127" "4305909" "10133750"   
## [7,] "1940-1949" "107" "4115658" "13800142"   
## [8,] "1950-1959" "92" "5287603" "18224976"   
## [9,] "1960-1969" "96" "4170675" "16973850"   
## [10,] "1970-1979" "93" "2697790" "13647127"   
## [11,] "1980-1989" "94" "4789294" "14816745"   
## [12,] "1990-1999" "75" "1364492" "14785246"   
## [13,] "2000-2009" "69" "1038179" "14098356"   
## [14,] "2010-2020" "85" "943084" "14104545"   
## Ratio of F GN Occur to Total F Occur M occurrances of GN names  
## [1,] "0.525361895687986" "585762"   
## [2,] "0.543608959893027" "487537"   
## [3,] "0.509497177898684" "558825"   
## [4,] "0.267666698758411" "3096960"   
## [5,] "0.402849928344735" "6217959"   
## [6,] "0.424907758727026" "5064778"   
## [7,] "0.298233018181987" "6545466"   
## [8,] "0.290129490431153" "7525882"   
## [9,] "0.245711786070927" "7996958"   
## [10,] "0.19768190037361" "5937839"   
## [11,] "0.323235231489777" "4413902"   
## [12,] "0.0922874059721428" "1793626"   
## [13,] "0.0736383022247417" "1419144"   
## [14,] "0.0668638371532013" "1676335"   
## Total M occurrances Ratio of M GN Occur to Total M Occur  
## [1,] "1091006" "0.536900805311795"   
## [2,] "1129420" "0.431670237821183"   
## [3,] "1331528" "0.419687006206403"   
## [4,] "6358747" "0.48703934910447"   
## [5,] "10501234" "0.592116983584977"   
## [6,] "10159661" "0.49851840528931"   
## [7,] "14477966" "0.452098450845927"   
## [8,] "19722553" "0.38158761697839"   
## [9,] "18732541" "0.426901934980417"   
## [10,] "15728444" "0.377522341052936"   
## [11,] "17358610" "0.254277387417541"   
## [12,] "17728340" "0.101172811442019"   
## [13,] "17299564" "0.0820335125208936"   
## [14,] "17132104" "0.0978475848617309"   
## Total GN Occurrances Total Occurrances  
## [1,] "1269510" "2392486"   
## [2,] "1668129" "3301187"   
## [3,] "2001506" "4163106"   
## [4,] "5171007" "14107365"   
## [5,] "10770419" "21801869"   
## [6,] "9370687" "20293411"   
## [7,] "10661124" "28278108"   
## [8,] "12813485" "37947529"   
## [9,] "12167633" "35706391"   
## [10,] "8635629" "29375571"   
## [11,] "9203196" "32175355"   
## [12,] "3158118" "32513586"   
## [13,] "2457323" "31397920"   
## [14,] "2619419" "31236649"   
## Ratio of GN Occurrances to Total Occurrances  
## [1,] "0.530623794663793"   
## [2,] "0.505311877212651"   
## [3,] "0.480772288767089"   
## [4,] "0.366546622987354"   
## [5,] "0.494013563699516"   
## [6,] "0.461760075721129"   
## [7,] "0.377009805606514"   
## [8,] "0.337663224395981"   
## [9,] "0.340769051680412"   
## [10,] "0.293973145236904"   
## [11,] "0.286032461801898"   
## [12,] "0.0971322572662394"   
## [13,] "0.0782638786263549"   
## [14,] "0.0838572344940073"