Question 1

Is there a correlation between the percent population below poverty to race?

Graphical user interface, text

Description automatically generated

Text

Description automatically generated

Summary of Percent Population

A screenshot of a computer

Description automatically generated with medium confidence

A picture containing table

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence

Text

Description automatically generated with low confidence

# Load package

library(tidyverse)

glimpse(CancerCombinedFile3)

# Rename works for Columns

names(CancerCombinedFile3)[names(CancerCombinedFile3) == "State\_name"] <- "State"

names(CancerCombinedFile3)[names(CancerCombinedFile3) == "Race\_name"] <- "Race"

names(CancerCombinedFile3)[names(CancerCombinedFile3) == "Percentage population below poverty"] <- "Poverty%"

names(CancerCombinedFile3)[names(CancerCombinedFile3) == "Percentage population insured"] <- "Insured"

glimpse(CancerCombinedFile3)

Cancer <- CancerCombinedFile3[, 2:9]

head(Cancer, n=10)

#Re-coding

library(dplyr)

library(gapminder)

Cancer$NameR <- NA

Cancer$NameR[Cancer$Name=='Cervix Uteri'] <- 0

Cancer$NameR[Cancer$Name=='Corpus Uteri'] <- 1

Cancer$NameR[Cancer$Name=='Uterus, NOS'] <- 2

Cancer$NameR[Cancer$Name=='Ovary'] <- 3

Cancer$NameR[Cancer$Name=='Vagina'] <- 4

Cancer$NameR[Cancer$Name=='Vulva'] <- 5

Cancer$NameR[Cancer$Name=='Other Female Genital Organs'] <- 6

library(plyr)

# This rename code works for data in a column

Cancer$Race[Cancer$Race == "American Indian or Alaska Native"] <- "NativeAmer"

Cancer$Race[Cancer$Race == "Black or African American"] <- "AfricanAmer"

Cancer$Race[Cancer$Race == "White"] <- "Caucasian"

Cancer$Race[Cancer$Race == "Other Races and Unknown combined"] <- "Other"

Cancer$Race[Cancer$Race == "Asian or Pacific Islander"] <- "AsianAmer"

glimpse(Cancer)