Graphical user interface, text

Description automatically generated

Background pattern

Description automatically generated with low confidence

Background pattern

Description automatically generated with low confidence

A picture containing background pattern

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated with medium confidence

Table

Description automatically generated

Table

Description automatically generated

A picture containing table

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated with low confidence

Table

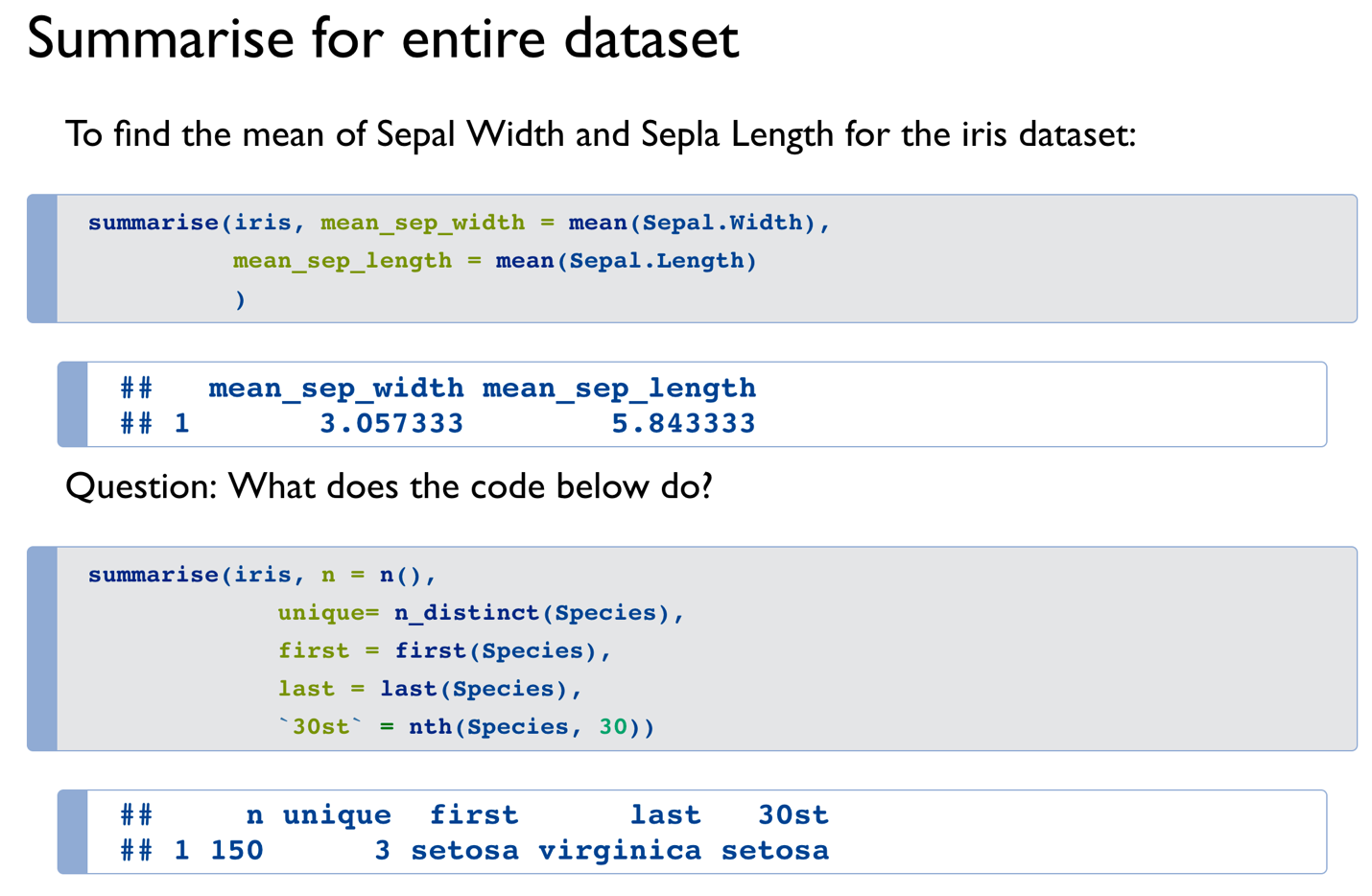
Description automatically generated

Table

Description automatically generated with low confidence

Text, letter

Description automatically generated



Table

Description automatically generated with low confidence

Text

Description automatically generated

Text

Description automatically generated

Table

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

df <- gapminder %>%

filter(year == 2007) %>%

group\_by(continent) %>%

summarise(mean\_life\_expt = mean(lifeExp),

counts = n())

## (1) making the bar chart

df %>% ggplot() +

geom\_col(mapping = aes(x = continent, y = mean\_life\_expt, fill = continent)) +

coord\_flip() + ## making bars horizontal

theme\_bw() ## black and white theme

## (2) making pie chart

df %>% ggplot(mapping = aes(x = 1, y = counts, fill = continent)) +

geom\_col(width = 1, color = "white") +

coord\_polar(theta = "y") +

## adding labels

geom\_label(mapping = aes(label = counts), ## alternatively use geom\_text which has no border around the labels

color = "black", ## border colr

position = position\_stack(vjust = 0.5),

show.legend = FALSE) +

theme\_void() + ## clears backgrond

theme(legend.position = "bottom") ## move legend to bottom