

Go to file/function

Addins

Untitled1* × data_cancer × conoc_activ_factor_cancer_cervical × data_cancer_0 ×

Source Visual B I <> Normal Format Insert Table Outline

```
---
title: "Practica_05"
author: "grupo 06"
format: html
editor: visual
---
```

Quarto Running Code

GRUPO 06:

1.- ALACOTE SALAS, Aylin Elisa

2.- ESQUIVEL MOLERO, Lourdes Valeria

3.- PALACIOS SALINAS, Danna Ariela

4.- ROJAS CORREA, Aitana

5.- VELASQUEZ ROMAN, Alvaro Fabian

Trabajo semana 05:

Paquetes que nos permitan la visualizacion de datos:

```
{r}
#install.packages("gridExtra")
```

Cargamos la libreria:

Chunk 31

Console Terminal Background Jobs

Environment History Connections Tutorial

Global Environment

Data

box_parejas_sex	List of 6	
conoc_activ_factor_...	218 obs. of 18 variables	
data_cancer	218 obs. of 18 variables	
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hist_1	List of 11	
hist_2	List of 11	

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Home estadistica_upsjb_estudio Estadistica_sem_05

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..		
Estadistica_sem_05.Rproj	267 B	May 3, 2025, 10:13 AM
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Quarto Running Code

Trabajo semana 05:

Paquetes que nos permitan la visualizacion de datos:

```
{r}
#install.packages("gridExtra")
```

Cargamos la libreria:

```
{r}
library(tidyverse)
library(rio)
library(here)
library(gridExtra) ## Para múltiple gráficos en una sola página
library(GGally) ## Para gráficos de correlación
library(forcats)
```

Cargando los datos:

```
{r}
data_cancer_0 <- import("~/estadistica_upsjb_estudio/Estadistica/data
/conoc_activ_factor_cancer_cervical.csv")
```

Chunk 31

Console Terminal Background Jobs

R - R 4.4.3 - ~/estadistica_upsjb_estudio/Estadistica_sem_05/ <>

Run `rlang::last_trace()` to see where the error occurred.

> ggsave(
+ "nombre_de_objeto.png",
+ width = 7, # Ancho
+ height = 4, # Alto
+ dpi = 300 # resolución

Environment History Connections Tutorial

Global Environment

Data

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Addins

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Quarto Running Code

Examinando datos:

```
{r}
str(data_cancer_0)
```

'data.frame': 218 obs. of 18 variables:
\$ paciente_num : int 1 2 3 4 5 6 7 8 9 10 ...
\$ edad : int 53 54 26 25 25 38 29 39 50 25 ...
\$ e_marital : chr "casada" "casada" "soltera" "soltera" ...
\$ n_educacion : chr "superior" "superior" "superior" "superior" ...
\$ religion : chr "catolico" "catolico" "catolico" "ninguna" ...
\$ etnia : chr "mestizo" "mestizo" "blanco" "mestizo" ...
\$ procedencia : chr "urbano" "rural" "urbano" "rural" ...
\$ ocupacion : chr "otro" "empleada" "estudiante" "sin empleo" ...
\$ ocupacion_convivi : chr "empleado" "empleado" "estudiante" "sin empleo" ...
\$ antec_fam : chr "no" "no" "no" "no" ...
\$ edad_relacion_sexual : int 23 18 18 18 20 16 17 19 17 ...
\$ parejas_sex : int 2 1 4 10 6 2 3 4 3 2 ...
\$ num_hijos : int 3 3 2 0 0 2 2 4 2 2 ...
\$ met_anticoncep : chr "no uso" "no uso" "no uso" "no uso" ...
\$ antec_ets : chr "no" "no" "no" "si" ...
\$ conocimiento : chr "alto" "medio" "medio" "medio" ...
\$ actitud : chr "negativa" "positiva" "positiva" "positiva" ...
\$ practica : chr "incorrecta" "incorrecta" "incorrecta" "correcta"

Chunk 31

Console Terminal Background Jobs

R - R 4.4.3 - ~/estadistica_upsjb_estudio/Estadistica_sem_05/ <>

Run `rlang::last_trace()` to see where the error occurred.

> ggsave(
+ "nombre_de_objeto.png",
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Environment History Connections Tutorial

Global Environment

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data_cancer <- data_cancer_0 |>
mutate_if(is.character, as.factor)
str(data_cancer)

```
'data.frame': 218 obs. of 18 variables:  
 $ paciente_num      : int  1 2 3 4 5 6 7 8 9 10 ...  
 $ edad              : int  53 54 26 25 25 38 29 39 50 25 ...  
 $ e_marital         : Factor w/ 4 levels "casada","conviviente",...: 1 1 3 3 3  
 3 3 2 3 2 ...  
 $ n_educacion       : Factor w/ 3 levels "primaria","secundaria",...: 3 3 3 3 3  
 3 2 3 3 3 ...  
 $ religion          : Factor w/ 3 levels "catolico","evangelista",...: 1 1 1 1 3  
 3 1 1 1 1 ...  
 $ etnia             : Factor w/ 3 levels "blanco","mestizo",...: 2 2 1 2 2 2 3  
 2 2 2 ...  
 $ procedencia       : Factor w/ 2 levels "rural","urbano": 2 1 2 1 1 1 2 2 2 2  
 ...  
 $ ocupacion         : Factor w/ 5 levels "ama de casa",...: 4 2 3 5 3 1 3 4 2 3  
 ...  
 $ ocupacion_convi   : Factor w/ 4 levels "empleado","estudiante",...: 1 1 2 4 2  
 3 3 3 3 3 ...  
 $ antec_fam        : Factor w/ 2 levels "no","si": 1 1 1 1 1 1 2 2 1 ...  
 $ edad_relacion_sexual: int  23 18 18 18 18 20 16 17 19 17 ...  
 $ parejas_sex       : int  2 1 4 10 6 2 3 4 3 2 ...  
 $ num_hijos         : int  3 3 2 0 0 2 2 4 2 2 ...  
 $ met_anticoncep    : Factor w/ 6 levels "aco","ampolla de 3 meses",...: 6 6 6  
 6 6 2 4 6 2 ...  
 $ practica          : Factor w/ 2 levels "correcta","incorrecta": 2 2 2 1 1 1 2 2 1 2 ...
```

```
$ parejas_sex      : int  2 1 4 10 6 2 3 4 3 2 ...  
 $ num_hijos       : int  3 3 2 0 0 2 2 4 2 2 ...  
 $ met_anticoncep  : Factor w/ 6 levels "aco","ampolla de 3 meses",...: 6 6 6 6 6 6 2 4 6 2 ...  
 $ antec_ets       : Factor w/ 2 levels "no","si": 1 1 1 2 1 1 1 1 1 ...  
 $ conocimiento    : Factor w/ 4 levels "alto","bajo",...: 1 3 3 3 3 1 1 2 1 3 ...  
 $ actitud         : Factor w/ 2 levels "negativa","positiva": 1 2 2 2 2 1 2 1 2 2 ...  
 $ practica        : Factor w/ 2 levels "correcta","incorrecta": 2 2 2 1 1 1 2 2 1 2 ...
```

EnvironmentHistoryConnectionsTutorial

Global Environment

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data_cancer |>
ggplot(aes(x = e_marital)) +
geom_bar()

Gráfico en orden decreciente:

```
{r}  
data_cancer |>  
ggplot(aes(x = fct_infreq(e_marital))) +  
geom_bar()
```

Uso de la función labs()

```
{r}
```

EnvironmentHistoryConnectionsTutorial

Global Environment

Data

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Uso de la función labs()

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EnvironmentHistoryConnectionsTutorial

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<input type="checkbox"/>	nombre_de_objeto.png	169.4 KB	May 3, 2025, 6:49 PM		

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Addins

Estadística_sem_05

EnvironmentHistoryConnectionsTutorial

Import Dataset348 MiB

RGlobal Environment

Data

box_parejas_sexList of 6

conoc_actit_factor_canc...218 obs. of 18 variables

data_cancer218 obs. of 18 variables

data_cancer_0218 obs. of 18 variables

hist_1List of 11

hist_2List of 11

FilesPlotsPackagesHelpViewerPresentation

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Homeestadística_upsjb_estudio> Estadística_sem_05

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..

Estadística_sem_05.Rproj267 BMay 3, 2025, 10:13 AM

nombre_de_objeto.png169.4 KBMay 3, 2025, 6:49 PM

SourceVisualNormalFormatInsertTableOutline

data_cancer |> ggplot(aes(x = edad_relacion_sexual)) + geom_histogram(aes(y = ..density..)) + labs(y = "Density", x = "Edad a la que intimo")

Quarto Running Code

Q[38;5;232m'stat_bin0` using `bins = 30`. Pick better value with `binwidth`.Q[39m

Density

Edad a la que intimo

FileEditCodeViewPlotsSessionBuildDebugProfileToolsHelp

Go to file/function

Addins

Estadística_sem_05

EnvironmentHistoryConnectionsTutorial

Import Dataset348 MiB

RGlobal Environment

Data

box_parejas_sexList of 6

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data_cancer218 obs. of 18 variables

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hist_1List of 11

hist_2List of 11

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Homeestadística_upsjb_estudio> Estadística_sem_05

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..

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nombre_de_objeto.png169.4 KBMay 3, 2025, 6:49 PM

SourceVisualNormalFormatInsertTableOutline

hist_1 = data_cancer |> ggplot(aes(x = edad_relacion_sexual)) + geom_histogram() + labs(y = "Frecuencia", x = "Edad a la que tuvo intimidad")

hist_2 = data_cancer |> ggplot(aes(x = edad_relacion_sexual)) + geom_histogram(aes(y = ..density..)) + labs(y = "Density", x = "Edad a la que tuvo intimidad")

Quarto Running Code

Q[38;5;232m'stat_bin0` using `bins = 30`. Pick better value with `binwidth`.Q[39m

Q[38;5;232m'stat_bin0` using `bins = 30`. Pick better value with `binwidth`.Q[39m

Frecuencia

Density

Edad a la que tuvo intimidad

Edad a la que tuvo intimidad

Go to file/function

Addins

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EnvironmentHistoryConnectionsTutorial

Import Dataset348 MiB

RGlobal Environment

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NameSizeModified

..

Estadística_sem_05.Rproj267 BMay 3, 2025, 10:13 AM

nombre_de_objeto.png169.4 KBMay 3, 2025, 6:49 PM

SourceVisualNormalFormatInsertTableOutline

Conteo con numero de barras distinto:

data_cancer |> ggplot(aes(x = edad_relacion_sexual)) + geom_histogram(bins = 10) + labs(y = "Frecuencia", x = "Edad a la que tuvo intimidad")

Quarto Running Code

Modificando los colores de las barras del histograma:

Frecuencia

Edad a la que tuvo intimidad

Go to file/function

Addins

data_cancer_0

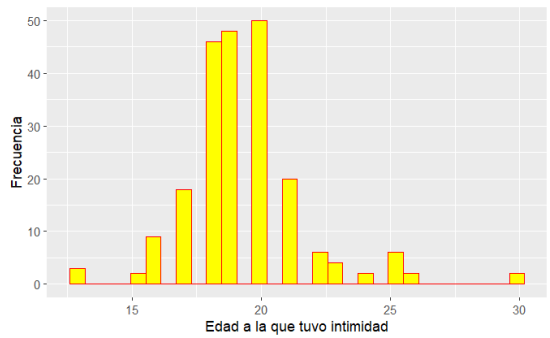
Source Visual B I <> Normal Format Insert Table Outline

Modificando los colores de las barras del histograma:

```
{r}
data_cancer |>
ggplot(aes(x = edad_relacion_sexual)) +
  geom_histogram(
    color = "red", ## Color de las barras
    fill = "yellow" ## color de las barras
  ) +
  labs(y = "Frecuencia",
       x = "Edad a la que tuvo intimidad")
```

Quarto Running Code

38:5:232m'stat_bin() using 'bins' = 30. Pick better value with 'binwidth'.0[39m



Environment History Connections Tutorial

Import Dataset 348 MiB

R Global Environment

Data

box_parejas_sex	List of 6	
conoc_actit_factor_can...	218 obs. of 18 variables	
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Addins

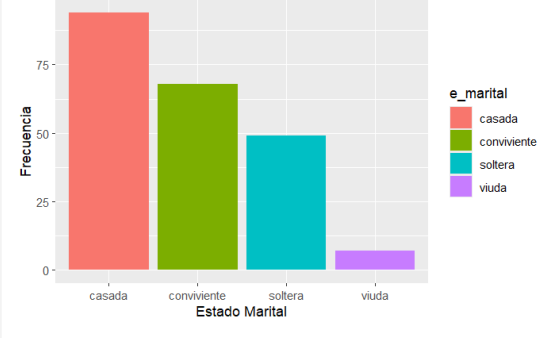
data_cancer_0

Source Visual B I <> Normal Format Insert Table Outline

Cambiando los colores de las barras:

```
{r}
data_cancer |>
ggplot(aes(x = fct_infreq(e_marital), fill = e_marital)) +
  geom_bar() +
  labs(y = "Frecuencia", x = "Estado Marital")
```

Quarto Running Code



Environment History Connections Tutorial

Import Dataset 271 MiB

R Global Environment

Data

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Addins

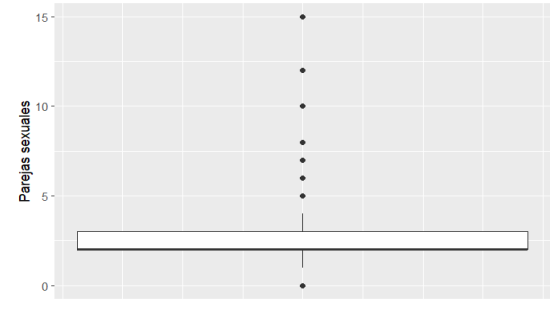
data_cancer_0

Source Visual B I <> Normal Format Insert Table Outline

Grafico de cajas y bigotes:

```
{r}
data_cancer |>
ggplot(aes(y = parejas_sex)) + ## Cambia y por x para invertir el gráfico
  geom_boxplot() +
  theme(axis.text.x = element_blank(),
        axis.ticks.x = element_blank()) +
  labs(y = "Parejas sexuales")
```

Quarto Running Code



Environment History Connections Tutorial

Import Dataset 271 MiB

R Global Environment

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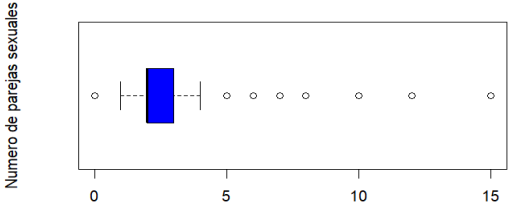
Source Visual B I C Normal Format Insert Table

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Quarto Running Code

Empleando funcion nativa de R:

```
{r}
box_parejas_sex = boxplot(data_cancer$parejas_sex,
  ylab = "Numero de parejas sexuales",
  horizontal = TRUE, ## Cambia la direcci3n
  del gr3fico
  col = "blue") ## Añadimos color
```



Visualizando variables categoricas contra categoricas:

```
{r}
```

Environment History Connections Tutorial

Import Dataset 272 MiB

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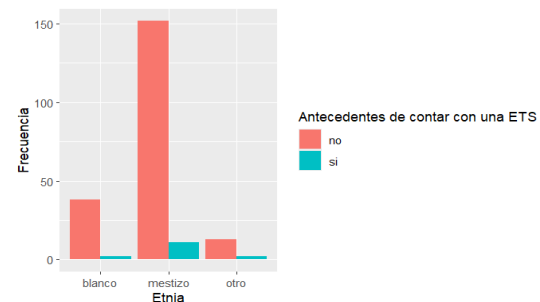
Source Visual B I C Normal Format Insert Table

Outline

Quarto Running Code

Visualizando variables categoricas contra categoricas:

```
{r}
data_cancer |>
ggplot(aes(x = etnia, fill = antec_ets)) +
  geom_bar(position = "dodge") + ## Sin este argumento, las barras
  estar3n una sobre otras
  labs(y = "Frecuencia",
    x = "Etnia",
    fill = "Antecedentes de contar con una ETS")
```



Environment History Connections Tutorial

Import Dataset 272 MiB

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File Edit Code View Plots Session Build Debug Profile Tools Help

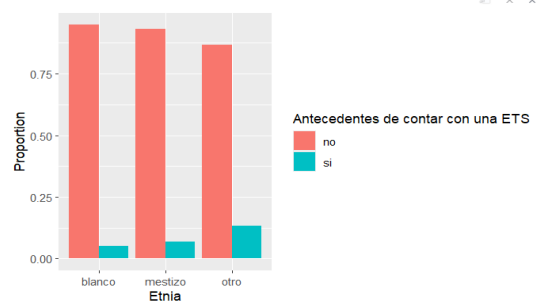
Go to file/function Addins

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Outline

Quarto Running Code

```
{r}
data_cancer |>
group_by(etnia, antec_ets) |>
count() |>
# Compute proportions within grade
# n is the default variable created by count()
group_by(etnia) |>
mutate(Proportion = n/sum(n)) |>
ggplot(aes(x = etnia, y = Proportion, fill = antec_ets)) +
  geom_bar(position = 'dodge', stat = 'identity') +
  labs(y = "Proportion",
    x = "Etnia",
    fill = "Antecedentes de contar con una ETS")
```



Environment History Connections Tutorial

Import Dataset 272 MiB

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Untitled1* x data_cancer x conoc_actit_factor_cancer_cervical x data_cancer_0 x

Source Visual B I <> Normal Format Insert Table Outline

DISTRIBUCION DE VARIABLES CONTINUAS *versus* CATEGORICAS

Grafico de barras:

```
{r}
data_cancer |>
  filter(!is.na(practica) & !is.na(etnia)) |>
  group_by(practica, etnia) |>
  summarise(n = n(),
            promedio = mean(num_hijos, na.rm = T),
            de = sd(num_hijos, na.rm = T)) |>
  ggplot(aes(x = practica, y = promedio, fill = etnia)) +
  geom_bar(stat = "identity", position = "dodge") +
  geom_errorbar(aes(ymin = promedio - de, ymax = promedio + de,
                    width = 0.5, size = 0.75, position = position_dodge(0.9)))
+
  labs(y = "Numero de hijos", fill = "Etnia", x = "Buena practica del acto sexual")
```

Numero c de hijos

Buena practica del acto sexual

Etnia

- blanco
- mestizo
- otro

correcta incorrecta

Boxplots lado a lado:

```
{r}
data_cancer |>
```

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Quarto Running Code

Environment History Connections Tutorial

R Global Environment 254 MiB

Import Dataset

Data

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data_cancer	218 obs. of 18 variables	
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hist_1	List of 11	
hist_2	List of 11	

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Estadistica_sem_05.Rproj	267 B	May 3, 2025, 10:13 AM
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Untitled1* x data_cancer x conoc_actit_factor_cancer_cervical x data_cancer_0 x

Source Visual B I <> Normal Format Insert Table Outline

Boxplots lado a lado:

```
{r}
data_cancer |>
  filter(!is.na(parejas_sex) & !is.na(etnia)) |>
  ggplot(aes(y = parejas_sex, x = etnia)) +
  geom_boxplot() +
  labs(y = "Compañeros íntimos", x = "Etnia")
```

Compañeros íntimos

Etnia

blanco mestizo otro

Chunk 31

Quarto Running Code

Environment History Connections Tutorial

R Global Environment 59 MiB

Import Dataset

Data

box_parejas_sex	List of 6	
conoc_actit_factor_ca...	218 obs. of 18 variables	
data_cancer	218 obs. of 18 variables	
data_cancer_0	218 obs. of 18 variables	
hist_1	List of 11	
hist_2	List of 11	

Files Plots Packages Help Viewer Presentation

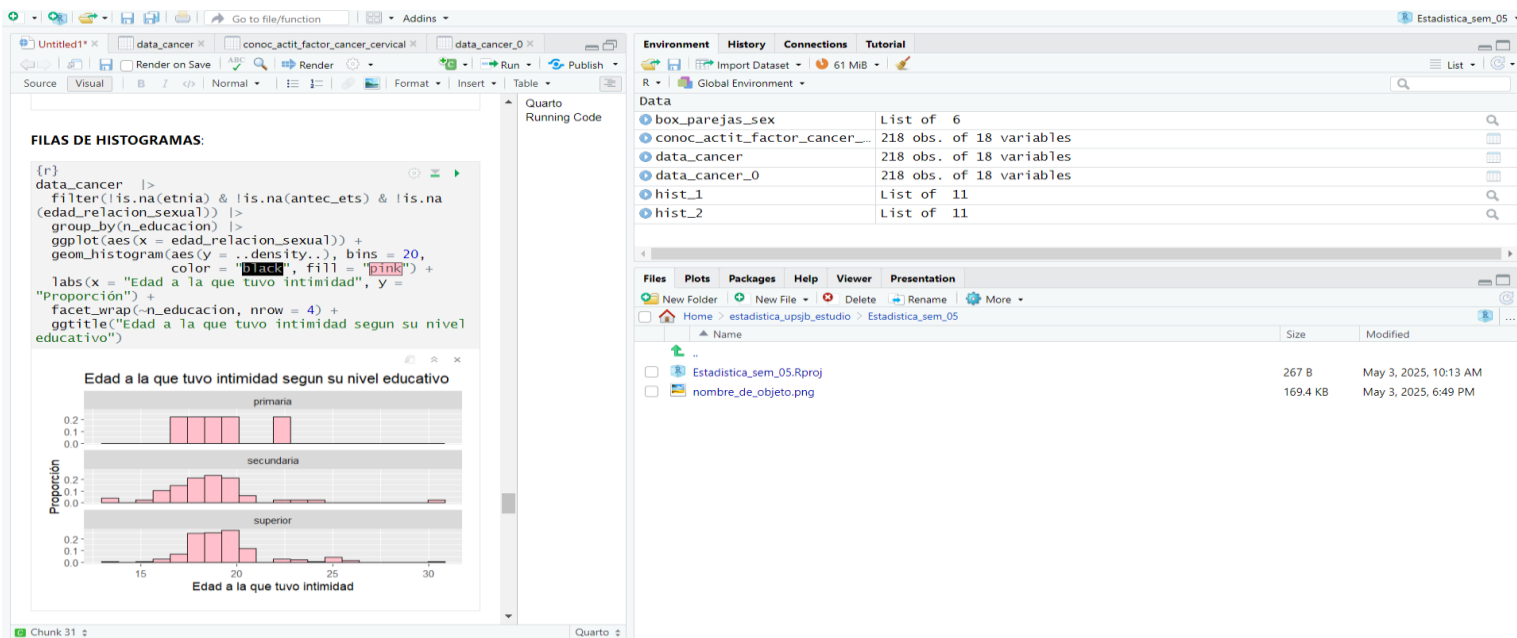
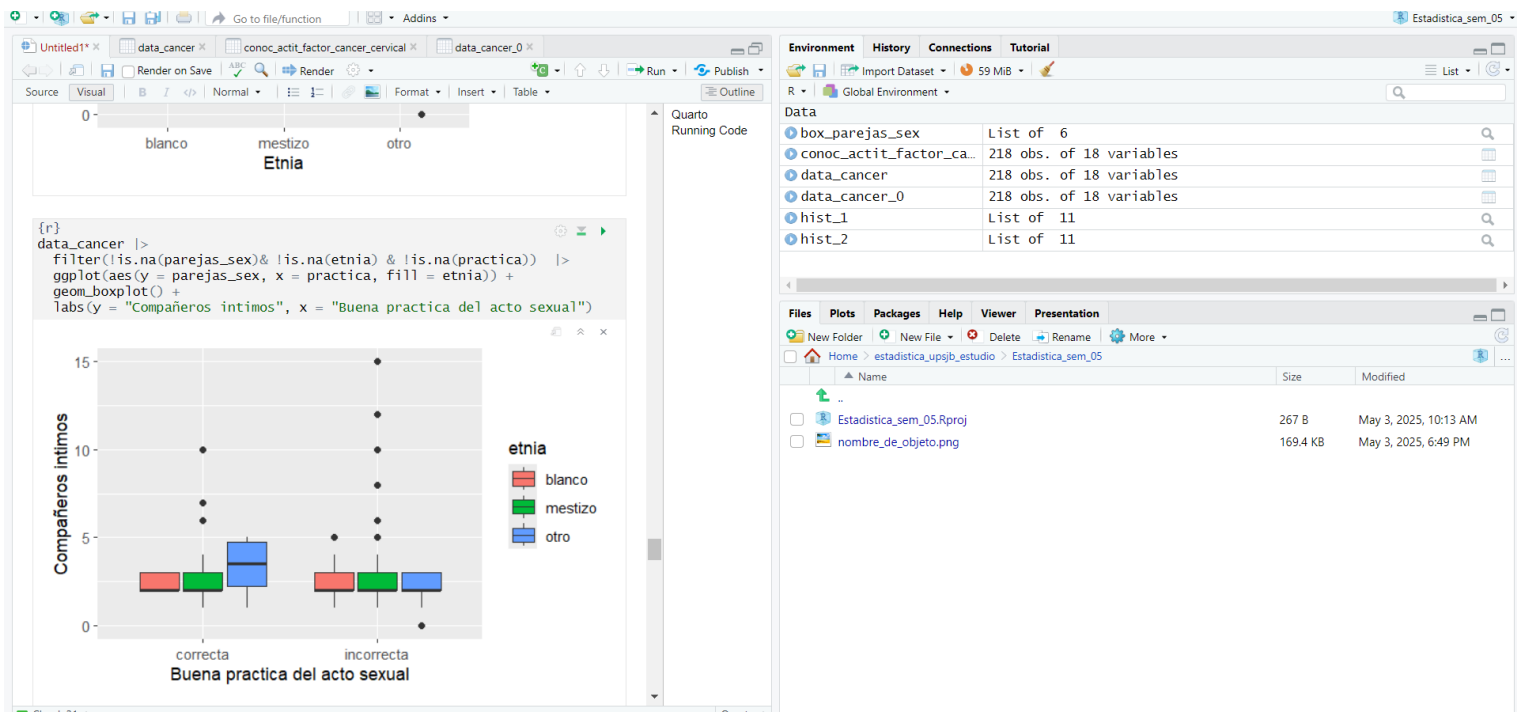
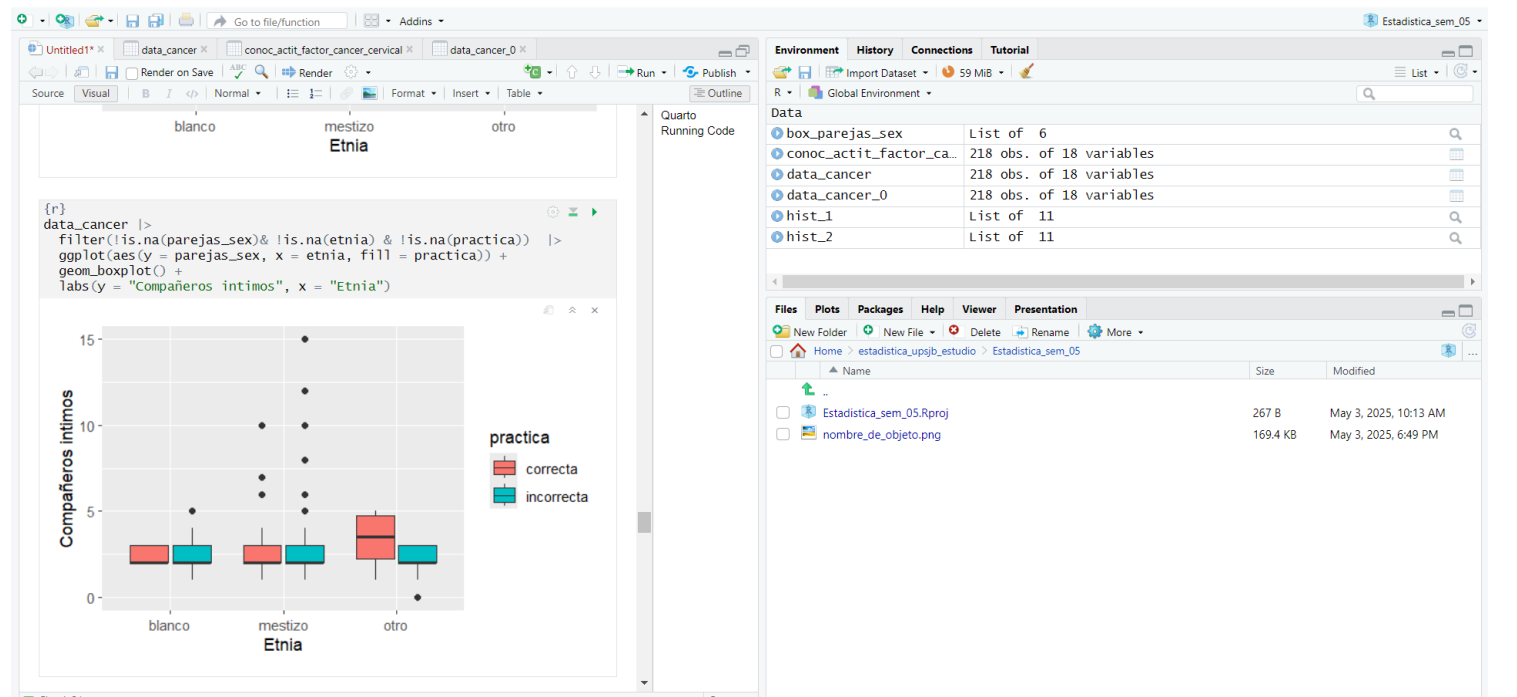
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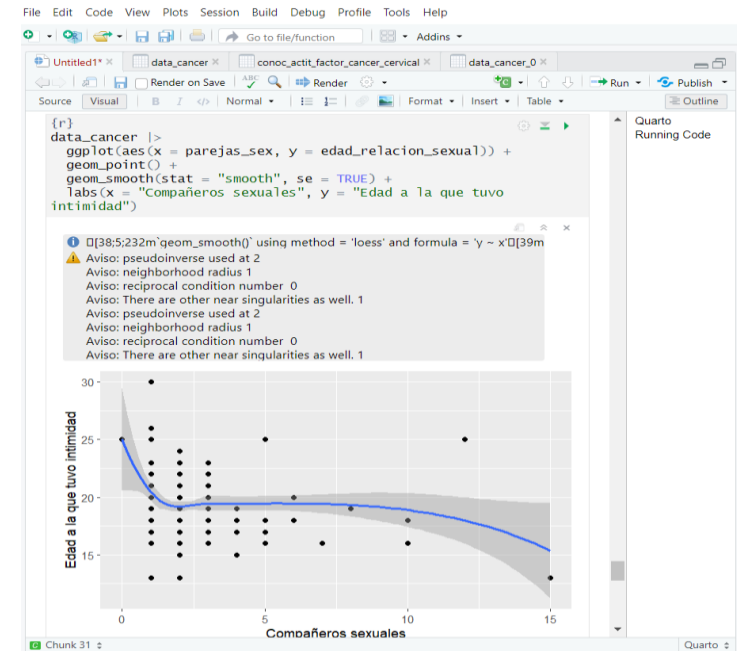
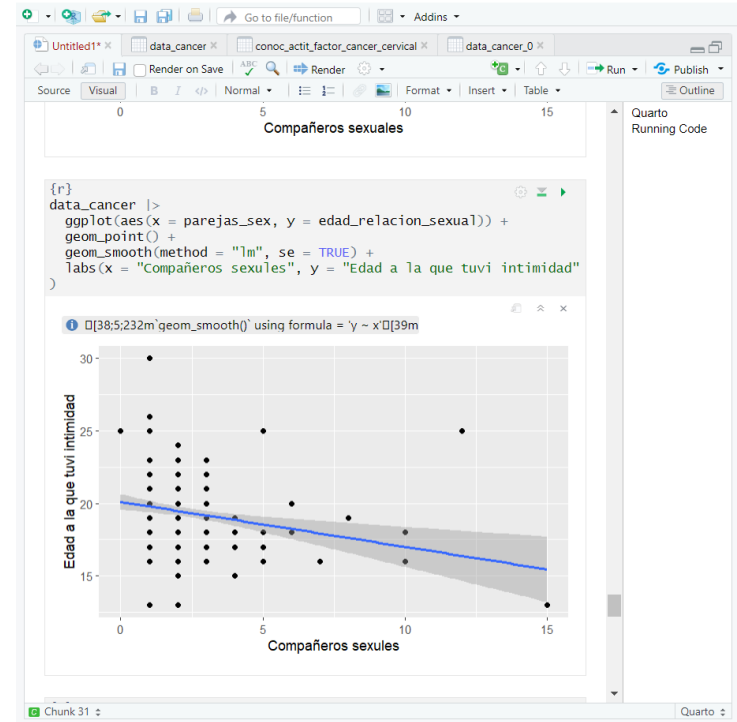
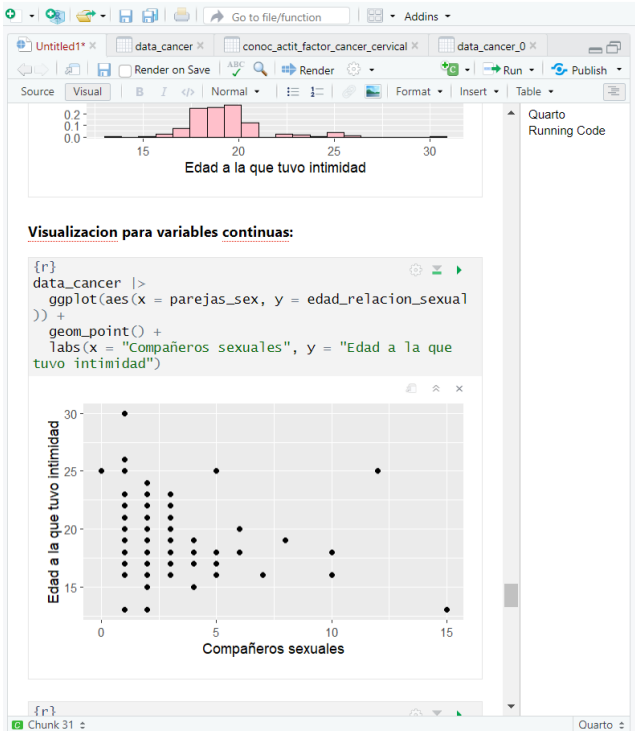
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Estadistica_sem_05.Rproj 267 B May 3, 2025, 10:13 AM

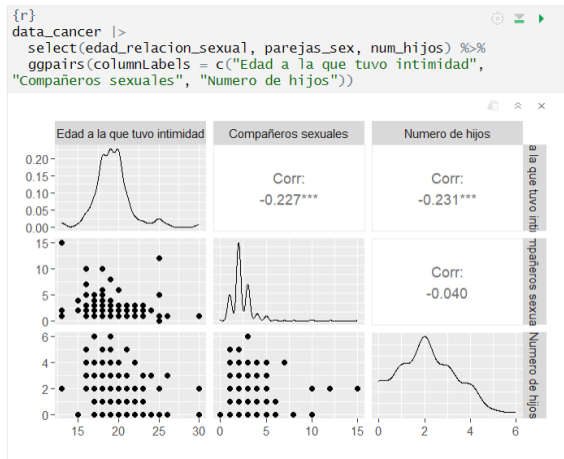
nombre_de_objeto.png 169.4 KB May 3, 2025, 6:49 PM





Compañeros sexuales

Funcion ggpairs:



Exportando el grafico:

Chunk 31

Quarto
Running Code

Data

box_parejas_sex	List of 6
conoc_actit_factor_canc...	218 obs. of 18 variables
data_cancer	218 obs. of 18 variables
data_cancer_0	218 obs. of 18 variables
hist_1	List of 11
hist_2	List of 11

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