

MVLU COLLEGE

PRACTICAL 11

OUTPUT:

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Console Terminal Background Jobs
R - R 4.1.2 - ~
Not all of the characters in C:/Users/mvluc/OneDrive/Desktop/ANSHRAH/DATA ANALYSIS WITH SASS SPSS R/prac11.R could be encoded using ISO8859-1. To save using a different encoding, choose "File | save with Encoding..." from the main menu.
> library(tidyverse)
Error in head(fertility_pivot) : object 'fertility_pivot' not found
Show Traceback
Re-run with Debug
In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> print("ANSHRAH SHAIKH \nSYCS \nS111 \nR PRAC 11")
[1] "ANSHRAH SHAIKH \nSYCS \nS111 \nR PRAC 11"
>
> df <- read.csv("C:/users/mvluc/onedrive/desktop/ANSHRAH/DATA ANALYSIS WITH SASS SPSS R/datasets/MLR2.csv") %>%
> mutate(ROWID = row_number())
>
> print("--- 1. Original Data ---")
[1] "--- 1. original data ---"
> head(df)
#> #> year PerFemEmploy FertilityRate Ratio_MaleToFemale PerFemEmployers
#> 1 1995 24.30 3.71 28.33 0.1
#> 2 1996 24.47 3.59 28.33 0.1
#> 3 1997 24.82 3.48 29.18 0.1
#> 4 1998 25.11 3.37 29.67 0.1
#> 5 1999 25.38 3.27 30.17 0.1
#> 6 2000 25.63 3.17 30.66 0.1
#> Agriculture Industry Services Wage_Salaried ContrFWorkers OwnAccount
#> 1 84.79 7.66 7.56 18.03 66.80 15.07
#> 2 82.28 7.46 10.27 18.38 66.39 15.14
#> 3 81.19 7.57 11.24 18.74 65.95 15.21
#> 4 80.25 8.11 11.95 19.11 65.53 15.26
#> 5 79.52 8.12 12.36 19.30 65.01 15.39
#> 6 78.78 8.65 12.57 19.90 64.53 15.47
#> Vulnerable ROWID
#> 1 81.87 1
#> 2 81.52 2
#> 3 81.16 3
#> 4 80.79 4
#> 5 80.40 5
#> 6 80.00 6
> long_df <- df %>%
#> Error in head(fertility_pivot) : object 'fertility_pivot' not found
#> Show Traceback
#> Re-run with Debug
#> In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> print("Long Format")
[1] "Long Format"
> head(long_df, 12)
#> Error in head(long_df, 12) : object 'long_df' not found
#> Show Traceback
#> Re-run with Debug
#> In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> wide_df <- long_df %>%
+ pivot_wider(
+ cols = -(year, ROWID),
+ names_to = "Metric",
+ values_to = "Value"
+)
#> Error in pivot_longer(., cols = -(year, RowID), names_to = "Metric", :
#> could not find function "pivot_longer"
#>
#> print("Wide Format")
[1] "Wide Format"
> head(wide_df, 12)
#> Error in head(wide_df) : object 'wide_df' not found
#> Show Traceback
#> Re-run with Debug
#> In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> fertility_pivot <- df %>%
+ select(year, FertilityRate) %>%
+ pivot_wider(
+ names_from = year,
+ values_from = FertilityRate
+)
#> Error in pivot_wider(., names_from = year, values_from = FertilityRate) :
#> could not find function "pivot_wider"
#>
#> fertility_pivot

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Console Terminal Background Jobs
R - R 4.1.2 - ~
Not all of the characters in C:/Users/mvluc/OneDrive/Desktop/ANSHRAH/DATA ANALYSIS WITH SASS SPSS R/prac11.R could be encoded using ISO8859-1. To save using a different encoding, choose "File | save with Encoding..." from the main menu.
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[1] "--- 1. original data ---"
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#> 3 81.19 7.57 11.24 18.74 65.95 15.21
#> 4 80.25 8.11 11.95 19.11 65.53 15.26
#> 5 79.52 8.12 12.36 19.30 65.01 15.39
#> 6 78.78 8.65 12.57 19.90 64.53 15.47
#> Vulnerable ROWID
#> 1 81.87 1
#> 2 81.52 2
#> 3 81.16 3
#> 4 80.79 4
#> 5 80.40 5
#> 6 80.00 6
> long_df <- df %>%
#> Error in head(fertility_pivot) : object 'fertility_pivot' not found
#> Show Traceback
#> Re-run with Debug
#> In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> print("Long Format")
[1] "Long Format"
> head(long_df, 12)
#> Error in head(long_df, 12) : object 'long_df' not found
#> Show Traceback
#> Re-run with Debug
#> In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> wide_df <- long_df %>%
+ pivot_wider(
+ names_from = Metric,
+ values_from = Value
+)
#> Error in pivot_wider(., names_from = Metric, values_from = Value) :
#> could not find function "pivot_wider"
#>
#> print("Wide Format (Restored)")
[1] "Wide Format (Restored)"
> head(wide_df, 12)
#> Error in head(wide_df) : object 'wide_df' not found
#> Show Traceback
#> Re-run with Debug
#> In addition: warning message:
 package 'tidyverse' was built under R version 4.1.3
>
> fertility_pivot <- df %>%
+ select(year, FertilityRate) %>%
+ pivot_wider(
+ names_from = year,
+ values_from = FertilityRate
+)
#> Error in pivot_wider(., names_from = year, values_from = FertilityRate) :
#> could not find function "pivot_wider"

MVLU COLLEGE

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Console Terminal Background Jobs
R > R 4.1.2 ~ /
> print("---- 2. Long Format ---")
[1] "---- 2. Long Format ---"
> head(long_df, 12)
Error in head(long_df, 12) : object 'long_df' not found
>
> wide_df <- long_df %>%
+ pivot_wider(
+ names_from = Metric,
+ values_from = Value
+)
Error in pivot_wider(, names_from = Metric, values_from = Value) :
could not find function "pivot_wider"
>
> print("---- 3. Wide Format (Restored) ---")
[1] "---- 3. Wide Format (Restored) ---"
> head(wide_df)
Error in head(wide_df) : object 'wide_df' not found
>
> fertility_pivot <- df %>%
+ select(Year, FertilityRate) %>%
+ pivot_wider(
+ names_from = Year,
+ values_from = FertilityRate
+)
Error in pivot_wider(, names_from = Year, values_from = FertilityRate) :
could not find function "pivot_wider"
>
> print("---- 4. Fertility Rate Spread Across Years ---")
[1] "---- 4. Fertility Rate Spread Across Years ---"
> head(fertility_pivot)
Error in head(fertility_pivot) : object 'fertility_pivot' not found
>
|

Environment History Connections Tutorial
Import Dataset 266 MB
Global Environment
df 25 obs. of 13 variables
employees_q1 3 obs. of 3 variables
employees_q2 3 obs. of 3 variables
high_income 521 obs. of 17 variables
high_tech_by_... 621 obs. of 17 variables
low_tuition 326 obs. of 17 variables
MLR2 25 obs. of 12 variables
my_data 1000 obs. of 17 variables
new_staff 2 obs. of 3 variables
performance_c... 3 obs. of 4 variables
Files Plots Packages Help Viewer Presentation
Folder File Delete Rename
Home Name Size Modified
.RData 223.8 KB Nov 24, 2025, 10:04 PM
Rhistory 51 KB Nov 24, 2025, 10:04 PM
Book.xlsx 18.8 KB Dec 3, 2025, 9:59 AM
class printString.java 125 B Nov 11, 2025, 10:03 AM
Computer Network prat1.docx 1.1 MB Nov 15, 2025, 9:44 AM
Custom Office Templates
Deep GIS Prac.docx 488.4 KB Nov 18, 2025, 9:33 AM
desktop.ini 418 B Aug 4, 2025, 11:19 AM
GIS Database
GIS Prac.docx 225.7 KB Nov 18, 2025, 8:41 AM
IISExpress
My Web Sites
NetBeansProjects
Office Tools Practical_1.accdb 604 KB Oct 11, 2025, 1:32 PM
Om AP 0.docx 1.2 MB Dec 1, 2025, 9:43 AM
OM BI PRACTICAL 8 A and B.docx 832.2 KB Dec 3, 2025, 10:03 AM
OMBI PRACTICAL 1A.docx 93.3 KB Dec 3, 2025, 10:02 AM

Search 25°C Sunny 11:06 ENG IN 08-12-2025

PRACTICAL 12 OUTPUT:

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Console Terminal Background Jobs
R > R 4.1.2 ~ /
> print("ANSHRAH SHAIKH \nSYCS \nS111 \nPRAC 11")
[1] "ANSHRAH SHAIKH \nSYCS \nS111 \nPRAC 11"
> dataset1 <- read.csv("C:/Users/myluc/OneDrive/Desktop/ANSHRAH/DATA ANALYSIS WITH SASS SPSS R/datasets/dataset1.csv")
> dataset2 <- read.csv("C:/Users/myluc/OneDrive/Desktop/ANSHRAH/DATA ANALYSIS WITH SASS SPSS R/datasets/dataset2.csv")
>
> str(dataset1)
'data.frame': 10 obs. of 3 variables:
 \$ ProductID : int 10 11 12 13 14 15 16 17 18 19
 \$ Product : chr "Laptop" "Tablet" "Monitor" "Smartphone" ...
 \$ March_Sales: int 45 60 30 80 50 70 25 40 35 55
> str(dataset2)
'data.frame': 10 obs. of 3 variables:
 \$ ProductID : int 10 11 12 13 14 15 16 17 18 19
 \$ Product : chr "Laptop" "Tablet" "Monitor" "Smartphone" ...
 \$ April_Sales: int 50 55 40 85 45 75 30 50 38 60
>
> combined <- merge(dataset1, dataset2, by = c("ProductID", "Product"))
>
> print("Combined Dataset.")
[1] "Combined Dataset."
> print(combined)
ProductID Product March_Sales April_Sales
1 10 Laptop 45 50
2 11 Tablet 60 55
3 12 Monitor 30 40
4 13 Smartphone 80 85
5 14 Keyboard 50 45
6 15 Mouse 70 75
7 16 Printer 25 30
8 17 Headphones 40 50
9 18 Webcam 35 38
10 19 Speaker 55 60
>
> summary(combined)
ProductID Product March_Sales April_Sales
Min. :10.00 Length:10 Min. :25.00 Min. :30.00
1st Qu.:12.25 Class:character 1st Qu.:36.25 1st Qu.:41.25
Median :14.50 Mode :character Median :47.50 Median :50.00
Mean :14.50 Mean :49.00 Mean :52.80
3rd Qu.:16.75 3rd qu.:58.75 3rd qu.:58.75
Max. :19.00 Max. :80.00 Max. :85.00
>

Environment History Connections Tutorial
Import Dataset 226 MB
Global Environment
dataset2 10 obs. of 3 variables
df 25 obs. of 13 variables
employees_q1 3 obs. of 3 variables
employees_q2 3 obs. of 3 variables
high_income 521 obs. of 17 variables
high_tech_by_... 621 obs. of 17 variables
low_tuition 326 obs. of 17 variables
MLR2 25 obs. of 12 variables
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Files Plots Packages Help Viewer Presentation
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desktop.ini 418 B Aug 4, 2025, 11:19 AM
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Office Tools Practical_1.accdb 604 KB Oct 11, 2025, 1:32 PM
Om AP 0.docx 1.2 MB Dec 1, 2025, 9:43 AM
OM BI PRACTICAL 8 A and B.docx 832.2 KB Dec 3, 2025, 10:03 AM
OMBI PRACTICAL 1A.docx 93.3 KB Dec 3, 2025, 10:02 AM
pract3_idx.docx 220.9 KB Dec 3, 2025, 10:04 AM
R
Virtual Machines
Visual Studio 2022
Search 28°C Sunny 11:50 ENG IN 08-12-2025

ANSHRAH SHAIKH
S111
SYCS
R PRAC 11, 12, 13, 14, 15

MVLU COLLEGE

PRACTICAL 13

OUTPUT:

The screenshot shows the RStudio interface with the 'Console' tab selected. The code in the console is as follows:

```
R > library(dplyr)
> print("ANSHRAH SHAIKH \nSYCS \ns111 \nR PRAC 13")
[1] "ANSHRAH SHAIKH \nSYCS \ns111 \nR PRAC 13"
>
> orders_df <- read.csv("C:/Users/mvlu/OneDrive/Desktop/ANSHRAH/DATA ANALYSIS WITH SASS SPSS R/datasets/dataset3.csv")
>
> print("--- 1. original dataset ---")
[1] "--- 1. original Dataset ---"
> Print(orders_df)
  OrderID Customer Product
1       101      Raj Laptop
2       102     Bebo Phone
3       102     Bebo Phone
4       103   charlie Tablet
5       104    Dinesh Monitor
6       101      Raj Laptop
7       104    Dinesh Mouse
8       105   Alice Keyboard
9       106      Bob Mouse
10      107   charlie Tablet
11      108     Bebo Phone
12      108     Bebo Phone
>
> duplicates_report <- orders_df %>%
+   group_by(OrderID, Customer, Product) %>%
+   count() %>%
+   filter(n > 1)
>
> print("--- 2. Identification Report (Rows that are duplicated) ---")
[1] "--- 2. Identification Report (Rows that are duplicated) ---"
> print(duplicates_report)
# A tibble: 3 × 4
# Groups: OrderID, Customer, Product [3]
  OrderID Customer Product     n
<int> <chr>   <chr> <int>
1 101 Raj     Laptop     2
2 102 Bebo    Phone      2
3 108 Bebo    Phone      2
>
> clean_exact <- orders_df %>%
+   distinct()
>
> print("--- 3. Removed Exact Duplicates (distinct) ---")
```

The environment pane on the right lists various datasets and files. The file system pane shows a folder structure with files like 'Deep GIS Prac.docx', 'GIS DataBase', 'GIS Prac.docx', etc.

The screenshot shows the RStudio interface with the 'Console' tab selected. The code continues from the previous screenshot:

```
R > print(" --- 2. Identification Report (Rows that are duplicated) ---")
[1] " --- 2. Identification Report (Rows that are duplicated) ---"
> print(duplicates_report)
# A tibble: 3 × 4
# Groups: OrderID, Customer, Product [3]
  OrderID Customer Product     n
<int> <chr>   <chr> <int>
1 101 Raj     Laptop     2
2 102 Bebo    Phone      2
3 108 Bebo    Phone      2
>
> clean_exact <- orders_df %>%
+   distinct()
>
> print(" --- 3. Removed Exact Duplicates (distinct) ---")
[1] " --- 3. Removed Exact Duplicates (distinct) ---"
> print(clean_exact)
  OrderID Customer Product
1       101      Raj Laptop
2       102     Bebo Phone
3       103   charlie Tablet
4       104    Dinesh Monitor
5       104    Dinesh Mouse
6       105   Alice Keyboard
7       106      Bob Mouse
8       107   charlie Tablet
9       108     Bebo Phone
>
> unique_customers <- orders_df %>%
+   distinct(Customer, .keep_all = TRUE)
>
> print(" --- 4. unique Customers only (Partial Duplicates removed) ---")
[1] " --- 4. unique customers only (Partial duplicates removed) ---"
> print(unique_customers)
  OrderID Customer Product
1       101      Raj Laptop
2       102     Bebo Phone
3       103   charlie Tablet
4       104    Dinesh Monitor
5       105   Alice Keyboard
6       106      Bob Mouse
```

The environment pane on the right lists various datasets and files. The file system pane shows a folder structure with files like 'Deep GIS Prac.docx', 'GIS DataBase', 'GIS Prac.docx', etc.

ANSHRAH SHAIKH

S111

SYCS

R PRAC 11, 12, 13, 14, 15

MVLU COLLEGE

PRACTICAL 14

OUTPUT:

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Source Editor:** Displays R code being run. The code includes printing data frames, extracting date components, and extracting current time information. It also includes a warning message about parsing formats.
- Environment Tab:** Shows the global environment with various datasets like employees_q2, high_income, high_tech_by_education, low_tuition, MLR2, my_data, new_staff, orders_df, performance_c, and processed_data.
- Files Tab:** Shows the file system structure, including custom office templates, Deep GIS Prac docx files, desktop.ini, GIS DataBase, GIS Prac.docx, IISExpress, My Web Sites, NetBeansProjects, Office Tools Practical 1.accdb, Om AP 0.docx, Om BI PRACTICAL 1A and B.docx, OMBI PRACTICAL 1A.docx, OMBI PRACTICAL 1A.pdf, pract_3_ir.docx, R, Virtual Machines, and Visual Studio 2022.

ANSHRAH SHAIKH
S111
SYCS
R PRAC 11, 12, 13, 14, 15

MVLU COLLEGE

PRACTICAL 15

OUTPUT:

The screenshot shows the RStudio interface with the following details:

- File Menu:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Addins:** Go to file/function, Addins.
- Source:** A tab labeled "Source" containing R code and its output.
- Console:** Tab labeled "Console" showing the R session history.
- Terminal:** Tab labeled "Terminal" showing the R session history.
- Background Jobs:** Tab labeled "Background Jobs" showing the status of background processes.
- Output:** The main pane displays the R code and its corresponding output. The code includes printing of str() and summary() for various datasets like MLR2, MLR2_df, and mnr2_df. The output provides detailed statistical summaries for variables such as Year, PerFemEmploy, FertilityRate, Ratio_MaletoFemale, and various industry and service counts.
- Environment:** A sidebar tab showing the global environment with objects like Tow_tuition, MLR2, MLR2_df, my_data, new_staff, orders_df, performance_c, processed_data, senior_or_ent, student_spend, and their respective sizes and types.
- History:** A sidebar tab showing the history of R sessions.
- Connections:** A sidebar tab showing database connections.
- Tutorial:** A sidebar tab showing available tutorials.
- Project:** Project (None) indicated at the top right.
- File Explorer:** Shows files in the current project directory, including Custom Office Templates, Deep GIS Prac.docx, desktop.ini, GIS DataBase, GIS Prac.docx, IISExpress, My Web Sites, NetBeansProjects, Office Tools Practical 1.accdb, Om AP 0.docx, Om BI PRACTICAL 8 A and B.docx, OMBI PRACTICAL 1A.docx, OMBI PRACTICAL 1A.pdf, pract_3_ir.docx, R, Virtual Machines, and Visual Studio 2022.
- Search:** A search bar at the bottom left.
- System Status:** Icons for battery level, temperature (30°C), signal strength, and date/time (08-12-2023).

ANSHRAH SHAIKH

S111

SYCS

R PRAC 11, 12, 13, 14, 15

MVLU COLLEGE

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

```
R > R 4.1.2 ~
Min. :16.56 Min. :27.99 Min. :15.07 Min. :66.73
1st Qu.:19.11 1st Qu.:53.41 1st Qu.:15.52 1st Qu.:77.11
Median :20.81 Median :61.29 Median :17.48 Median :79.09
Mean :21.97 Mean :55.87 Mean :21.97 Mean :77.84
3rd Qu.:22.78 3rd Qu.:64.07 3rd Qu.:26.47 3rd Qu.:80.79
Max. :32.61 Max. :66.80 Max. :38.74 Max. :83.27
> mlr2_df$year <- as.factor(mlr2_df$year)
Error in `<- data.frame`(*tmp*, year, value = integer(0)) :
replacement has 0 rows, data has 25

> print("---- 4. OUTPUT OF summary() [Year as Factor] ----")
[1] "---- 4. OUTPUT OF summary() [Year as Factor] ----"
> summary(mlr2_df)

  .by      PerfEmploy   FertilityRate   Ratio_MaletoFemale
Min. :1995 Min. :24.30 Length:25 Min. :28.33
1st Qu.:2001 1st Qu.:25.78 Class :character 1st Qu.:31.02
Median :2007 Median :26.56 Mode :character Median :33.50
Mean :2007 Mean :27.68 Mean :34.95
3rd Qu.:2013 3rd Qu.:28.99 3rd Qu.:38.49 Max. :44.50
Max. :2019 Max. :33.82

  PerfEmployers Agriculture Industry Services
Min. :0.0000 Max. :100.00 Min. :1.46 Min. :7.56
1st Qu.:0.0000 1st Qu.:64.73 1st Qu.:9.01 1st Qu.:13.55
Median :0.1200 Median :67.52 Median :12.62 Median :19.87
Mean :0.1960 Mean :70.27 Mean :12.02 Mean :17.71
3rd Qu.:0.1600 3rd Qu.:77.44 3rd Qu.:14.42 3rd Qu.:20.86
Max. :0.6600 Max. :84.79 Max. :16.78 Max. :24.27
Wage_Salaried Contramworkers OwnAccount Vulnerable
Min. :16.56 Min. :27.99 Min. :15.07 Min. :66.73
1st Qu.:19.11 1st Qu.:52.41 1st Qu.:15.52 1st Qu.:77.11
Median :20.81 Median :61.29 Median :17.48 Median :79.09
Mean :21.97 Mean :55.87 Mean :21.97 Mean :77.84
3rd Qu.:22.78 3rd Qu.:64.07 3rd Qu.:26.47 3rd Qu.:80.79
Max. :32.61 Max. :66.80 Max. :38.74 Max. :83.27
> avg_fertility <- mean(mlr2_df$FertilityRate, na.rm = TRUE)
warning message:
In mean.default(mlr2_df$FertilityRate, na.rm = TRUE) :
  argument is not numeric or logical: returning NA
```

Environment History Connections Tutorial

R Global Environment

- low_tuition
- MLR2
- mlr2_df
- my_data
- new_staff
- orders_df
- performance_c
- processed_data
- senior_or_ent_
- student_spend

Files Plots Packages Help Viewer Presentation

Home

Custom Office Templates

Deep GIS Prac.docx

desktop.ini

GIS Database

GIS Prac.docx

IISExpress

My Web Sites

NetBeansProjects

Office Tools Practical_1.accdb

Om AP.docx

OM BI PRACTICAL 8 A and B.docx

OMBI PRACTICAL 1A.docx

OMBI PRACTICAL 1A.pdf

pract_3_ir.docx

R

Virtual Machines

Visual Studio 2022

30°C Sunny

ENG IN

12:18 08-12-2025

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

```
R > R 4.1.2 ~
Error in `<- data.frame`(*tmp*, year, value = integer(0)) :
replacement has 0 rows, data has 25

> print("---- 4. OUTPUT OF summary() [Year as Factor] ----")
[1] "---- 4. OUTPUT OF summary() [Year as Factor] ----"
> summary(mlr2_df)

  .by      PerfEmploy   FertilityRate   Ratio_MaletoFemale
Min. :1995 Min. :24.30 Length:25 Min. :28.33
1st Qu.:2001 1st Qu.:25.78 Class :character 1st Qu.:31.02
Median :2007 Median :26.56 Mode :character Median :33.50
Mean :2007 Mean :27.68 Mean :34.95
3rd Qu.:2013 3rd Qu.:28.99 3rd Qu.:38.49 Max. :44.50
Max. :2019 Max. :33.82

  PerfEmployers Agriculture Industry Services
Min. :0.0000 Max. :100.00 Min. :1.46 Min. :7.56
1st Qu.:0.0000 1st Qu.:64.73 1st Qu.:9.01 1st Qu.:13.55
Median :0.1200 Median :67.52 Median :12.62 Median :19.87
Mean :0.1960 Mean :70.27 Mean :12.02 Mean :17.71
3rd Qu.:0.1600 3rd Qu.:77.44 3rd Qu.:14.42 3rd Qu.:20.86
Max. :0.6600 Max. :84.79 Max. :16.78 Max. :24.27
Wage_Salaried Contramworkers OwnAccount Vulnerable
Min. :16.56 Min. :27.99 Min. :15.07 Min. :66.73
1st Qu.:19.11 1st Qu.:52.41 1st Qu.:15.52 1st Qu.:77.11
Median :20.81 Median :61.29 Median :17.48 Median :79.09
Mean :21.97 Mean :55.87 Mean :21.97 Mean :77.84
3rd Qu.:22.78 3rd Qu.:64.07 3rd Qu.:26.47 3rd Qu.:80.79
Max. :32.61 Max. :66.80 Max. :38.74 Max. :83.27
> avg_fertility <- mean(mlr2_df$FertilityRate, na.rm = TRUE)
warning message:
In mean.default(mlr2_df$FertilityRate, na.rm = TRUE) :
  argument is not numeric or logical: returning NA
```

Environment History Connections Tutorial

R Global Environment

- low_tuition
- MLR2
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