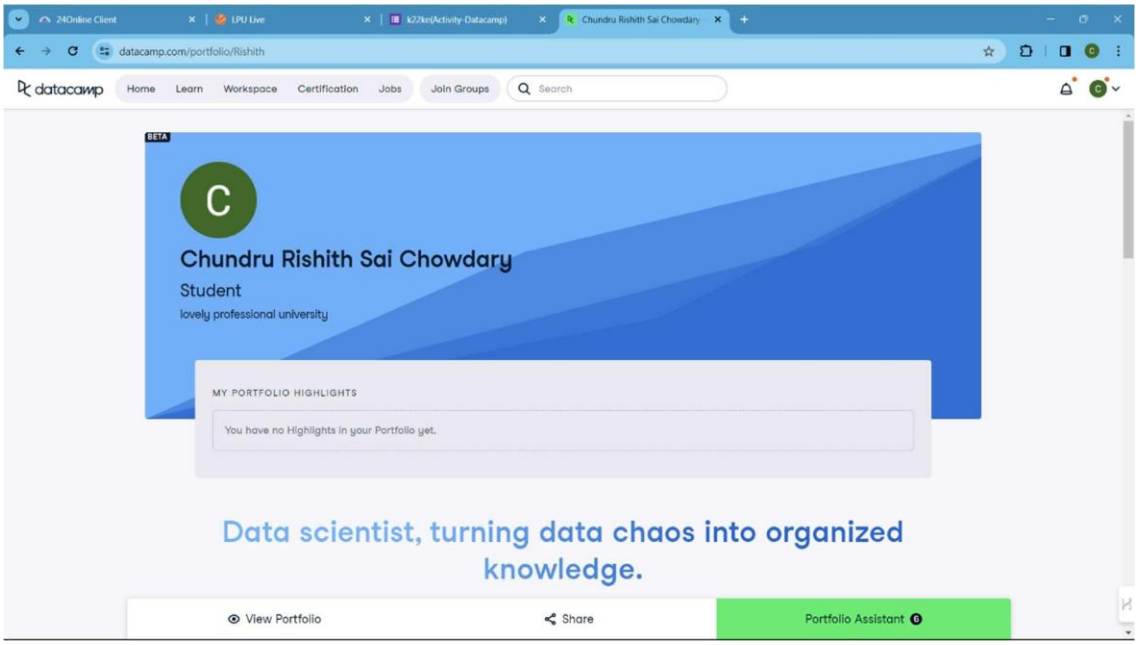
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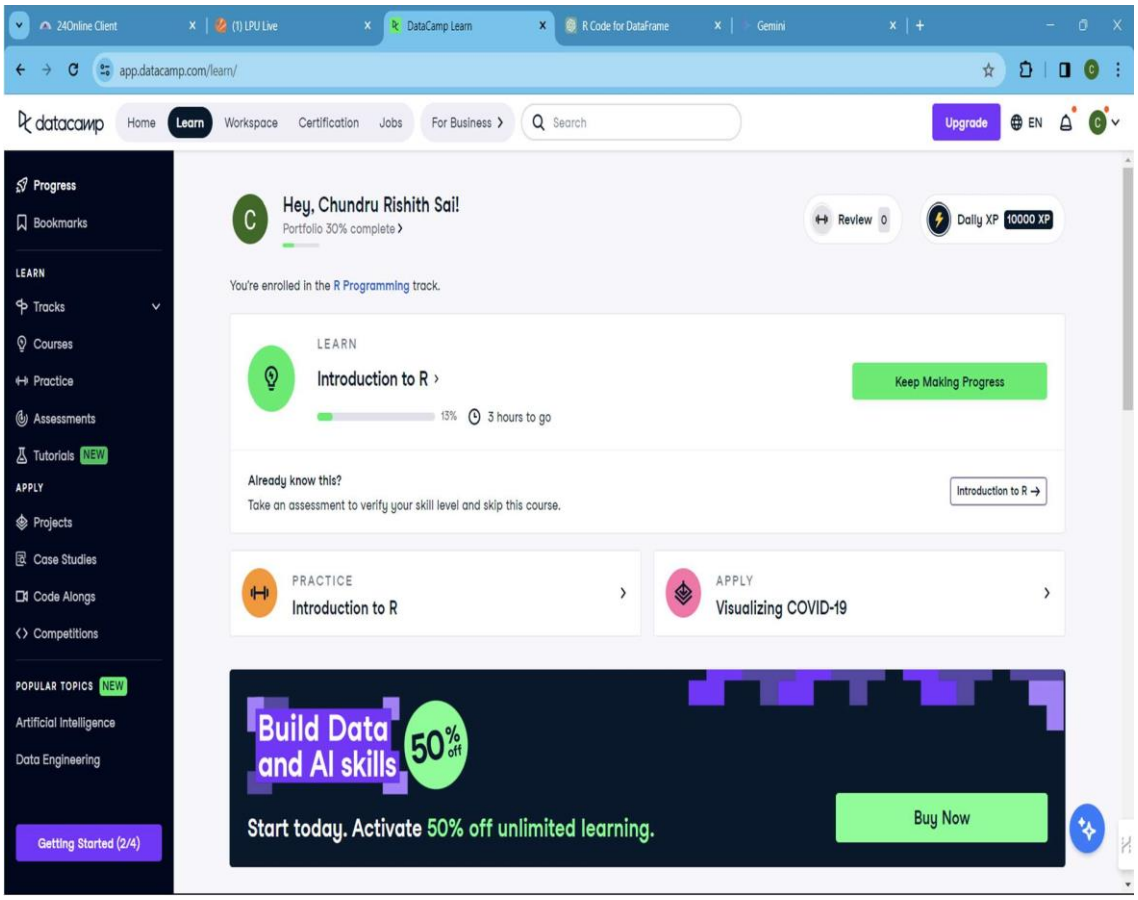
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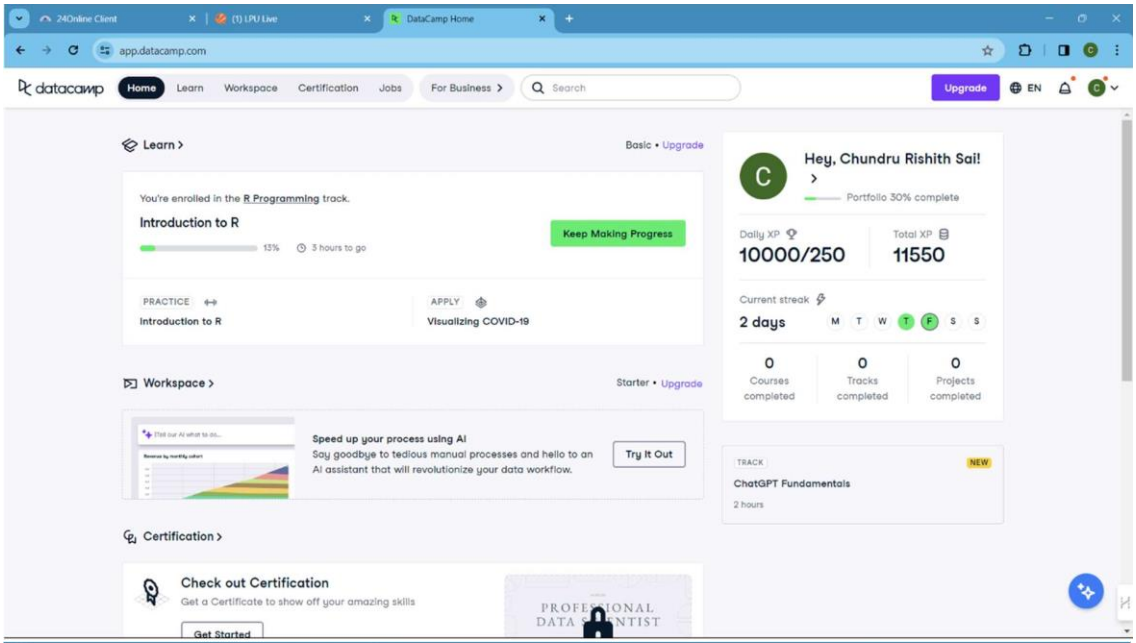
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10000/250
Total XP
11550
Current streak
2 days
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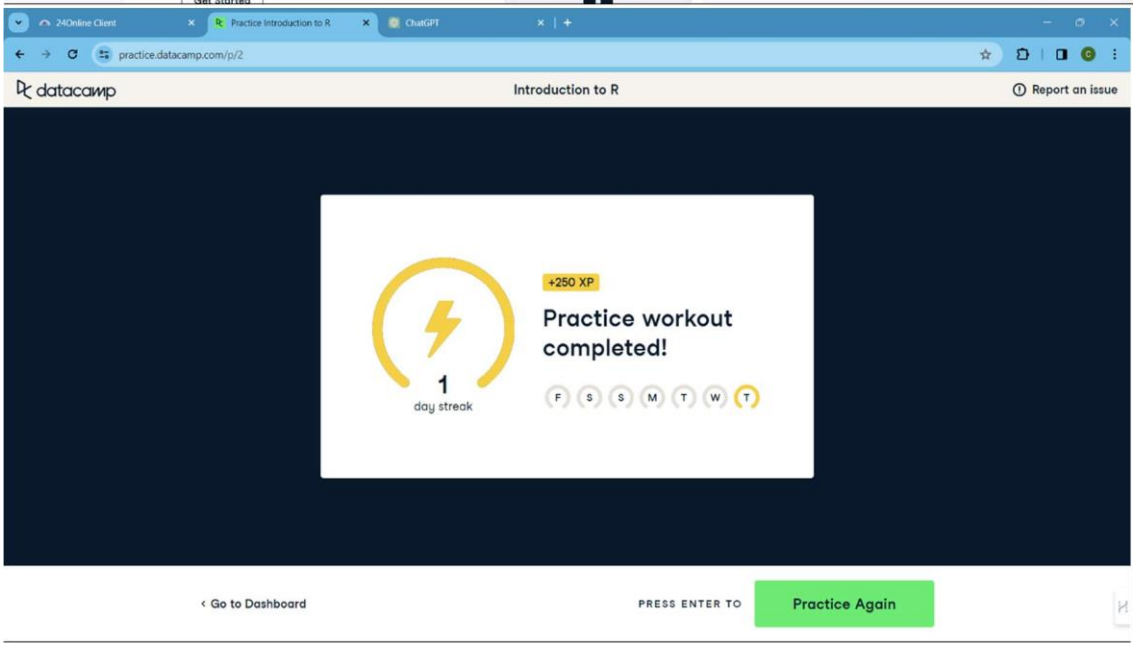
0
Courses completed
0
Tracks completed
0
Projects completed
TRACK
NEW
ChatGPT Fundamentals
2 hours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Report an issue
+250 XP
Practice workout completed!
1
day streak
F S S M T W T
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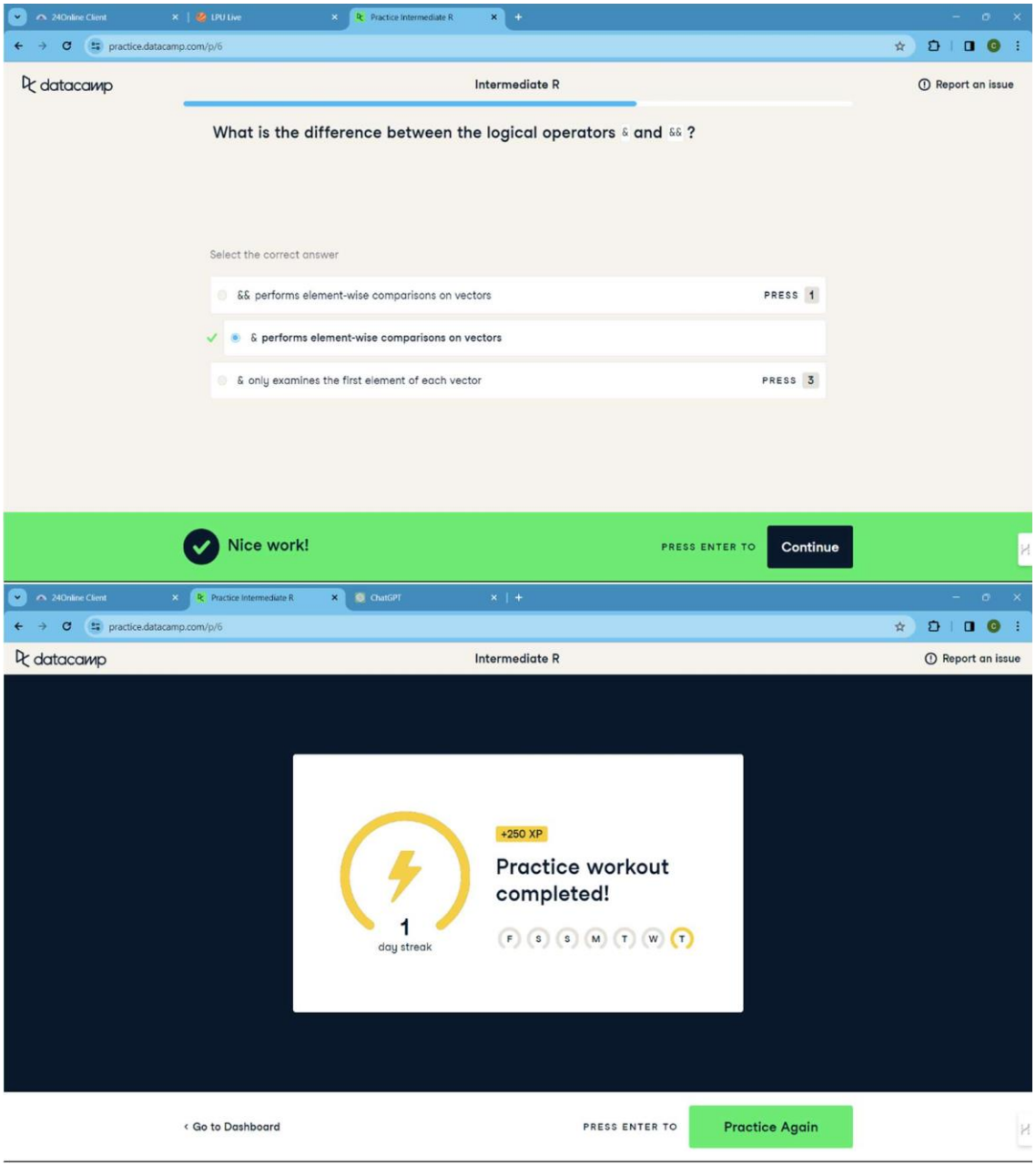
Practice Again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practice.datacamp.com/p/6
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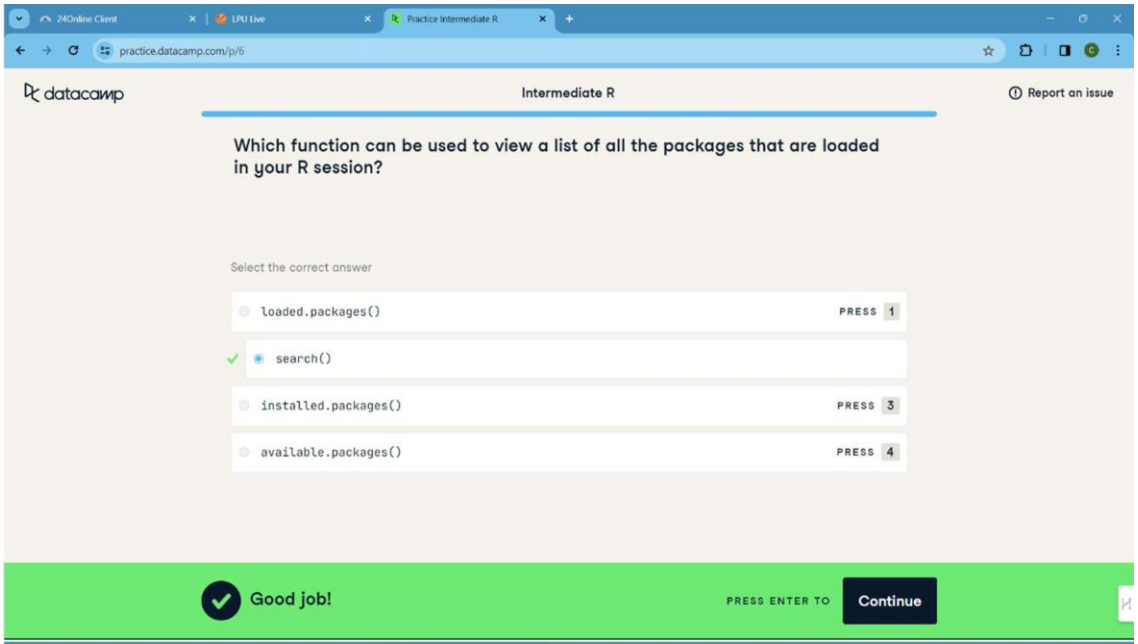
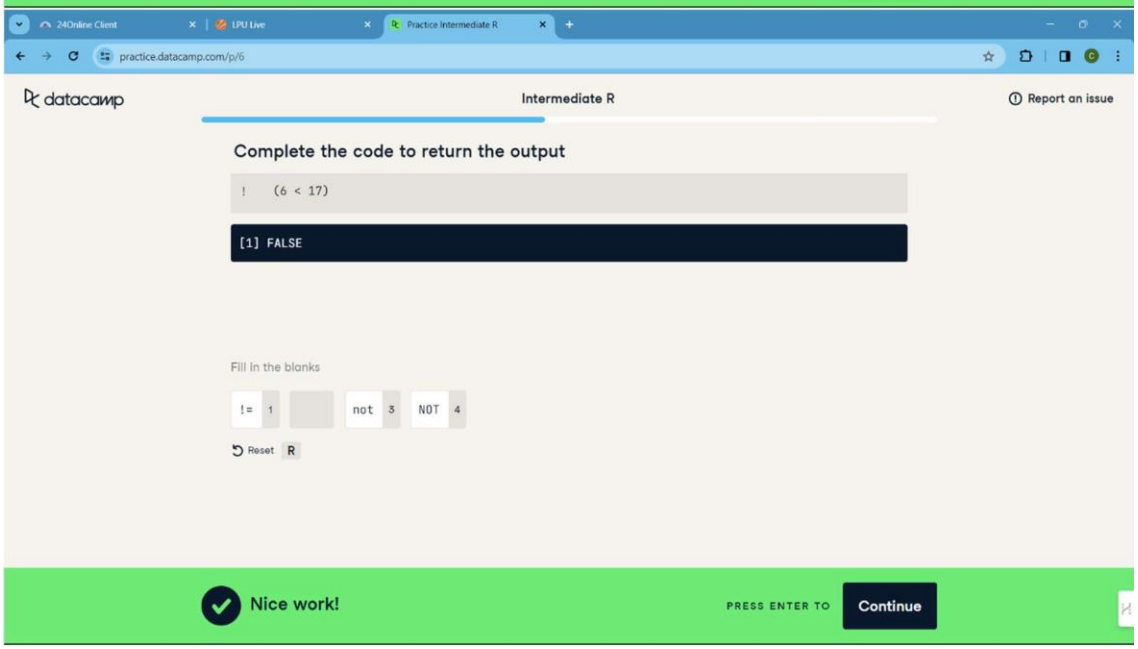
Intermediate R
Report an issue
What is the difference between the logical operators & and && ?
Select the correct answer
&& performs element-wise comparisons on vectors
PRESS 1
& performs element-wise comparisons on vectors
& only examines the first element of each vector
PRESS 3
Nice work!
PRESS ENTER TO
Continue
24Online Client
Practice Intermediate R
ChatGPT
practice.datacamp.com/p/6
datacamp
Intermediate R
Report an issue
1
day streak
+250 XP
Practice workout completed!
F S S M T W T
‹ Go to Dashboard
PRESS ENTER TO
Practice Again


practice.datacamp.com/p/6
datacamp
Intermediate R
Report an issue
Which function can be used to view a list of all the packages that are loaded in your R session?
Select the correct answer
loaded.packages()
PRESS 1
search()
installed.packages()
PRESS 3
available.packages()
PRESS 4
Good job!
PRESS ENTER TO
Continue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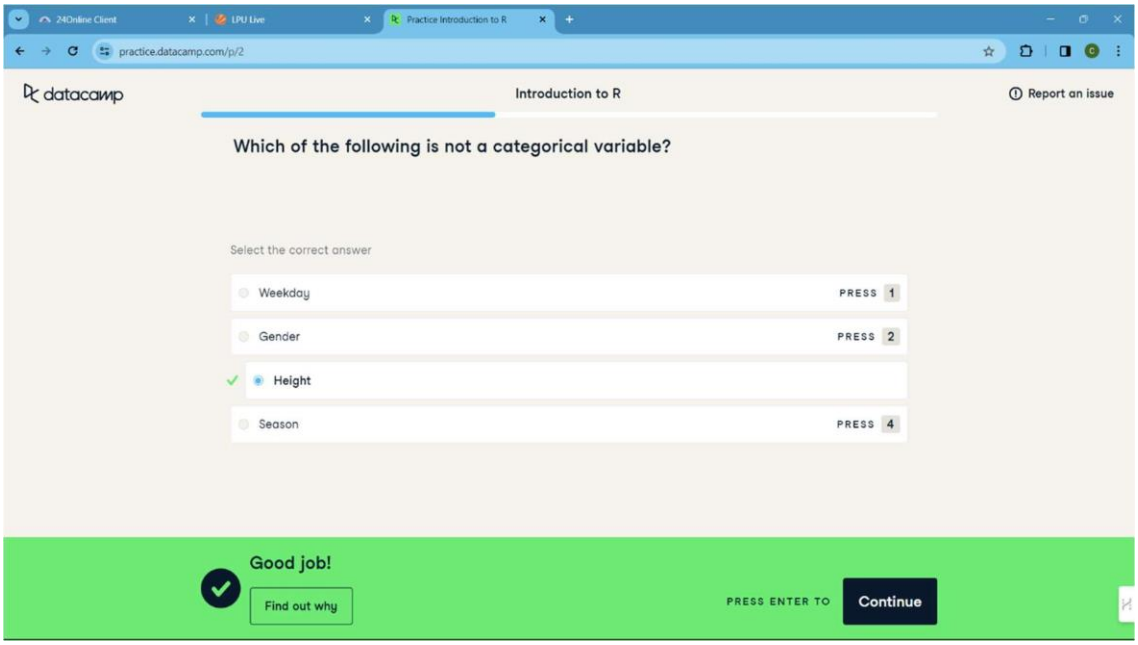
Intermediate R
Report an issue
Complete the code to return the output
! (6 < 17)
[1] FALSE
Fill in the blanks
!= 1
not 3
NOT 4
Reset R
Nice work!
PRESS ENTER TO
Continue


24Online Client
LPU Live
Practice Introduction to R
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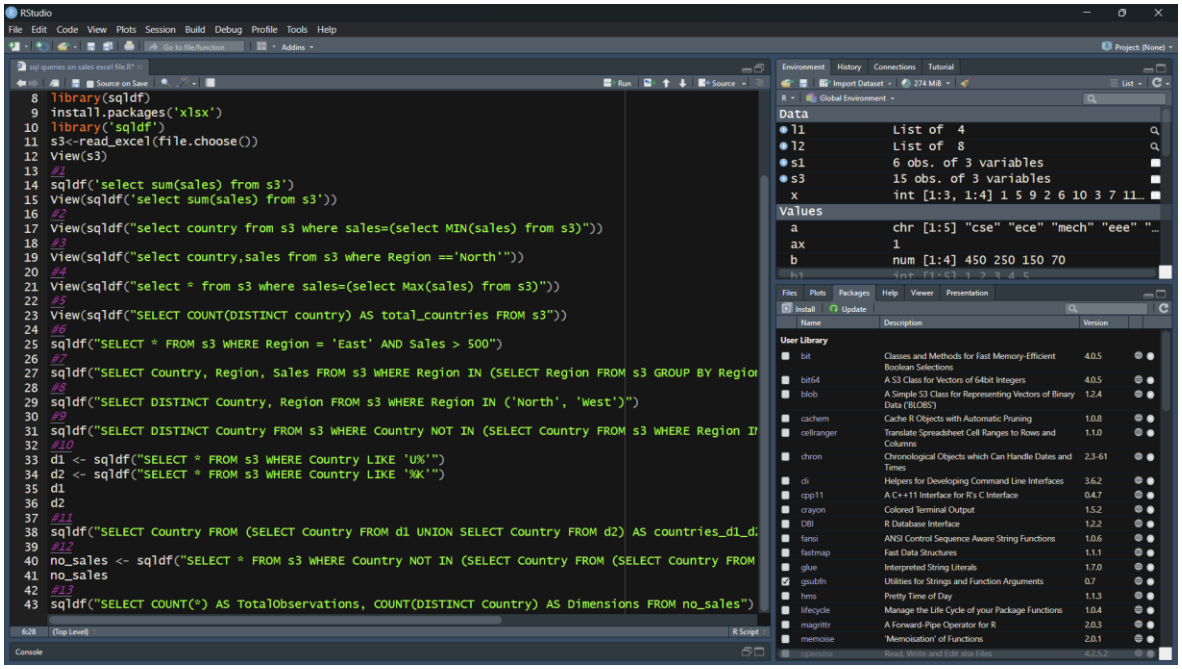
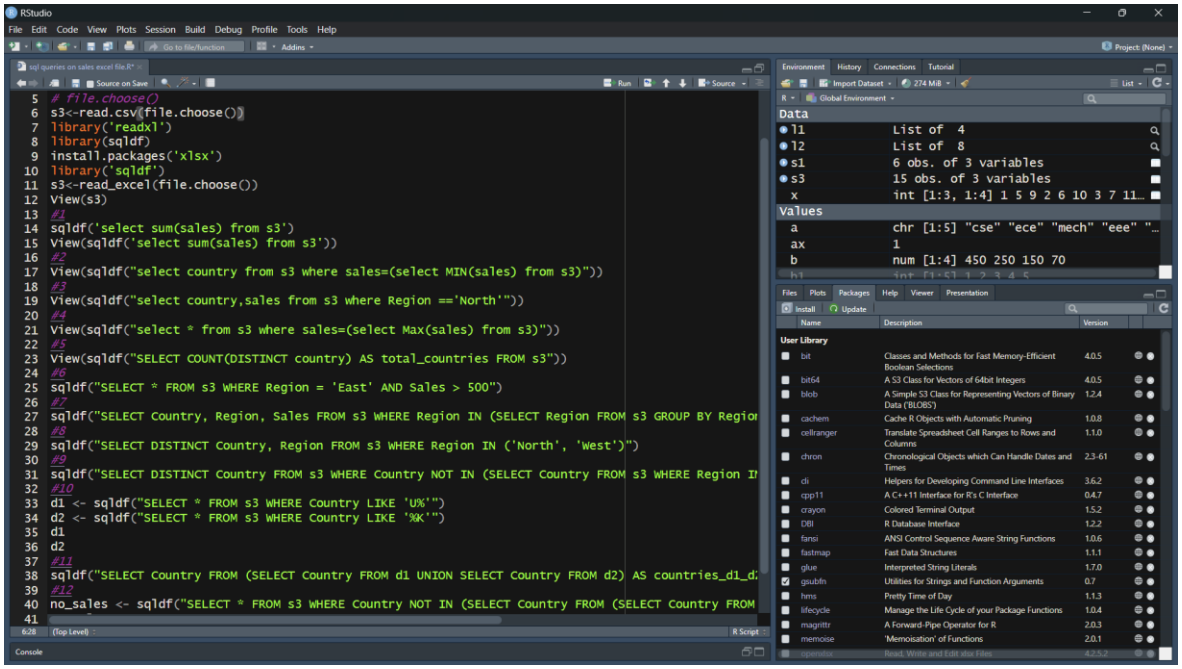
datacamp
Introduction to R
Report an issue
Which of the following is not a categorical variable?
Select the correct answer
Weekday
PRESS 1
Gender
PRESS 2
Height
Season
PRESS 4
Good job!
Find out why
PRESS ENTER TO
Continue

ACTIVITY-3



```
library(sqldf)
install.packages('xlsx')
library('sqldf')
s3<-read_excel(file.choose())
View(s3)
#1
sqldf('select sum(sales) from s3')
View(sqldf('select sum(sales) from s3'))
#2
View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
#3
View(sqldf("select country,sales from s3 where Region =='North'"))
#4
View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
#5
View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
#6
sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500")
#7
sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Region FROM s3 GROUP BY Regio
#8
sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'West')")
#9
sqldf("SELECT DISTINCT Country FROM s3 WHERE Country NOT IN (SELECT Country FROM s3 WHERE Region I
#10
d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
d1
d2
#11
sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2) AS countries_d1_d
#12
no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (SELECT Country FROM
no_sales
#13
sqldf("SELECT COUNT(*) AS TotalObservations, COUNT(DISTINCT Country) AS Dimensions FROM no_sales")
```



```
# file.choose()
s3<-read.csv(file.choose())
library('readxl')
library(sqldf)
install.packages('xlsx')
library('sqldf')
s3<-read_excel(file.choose())
View(s3)
#1
sqldf('select sum(sales) from s3')
View(sqldf('select sum(sales) from s3'))
#2
View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
#3
View(sqldf("select country,sales from s3 where Region =='North'"))
#4
View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
#5
View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
#6
sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500")
#7
sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Region FROM s3 GROUP BY Regio
#8
sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'West')")
#9
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#10
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d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
d1
d2
#11
sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2) AS countries_d1_d
#12
no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (SELECT Country FROM
```
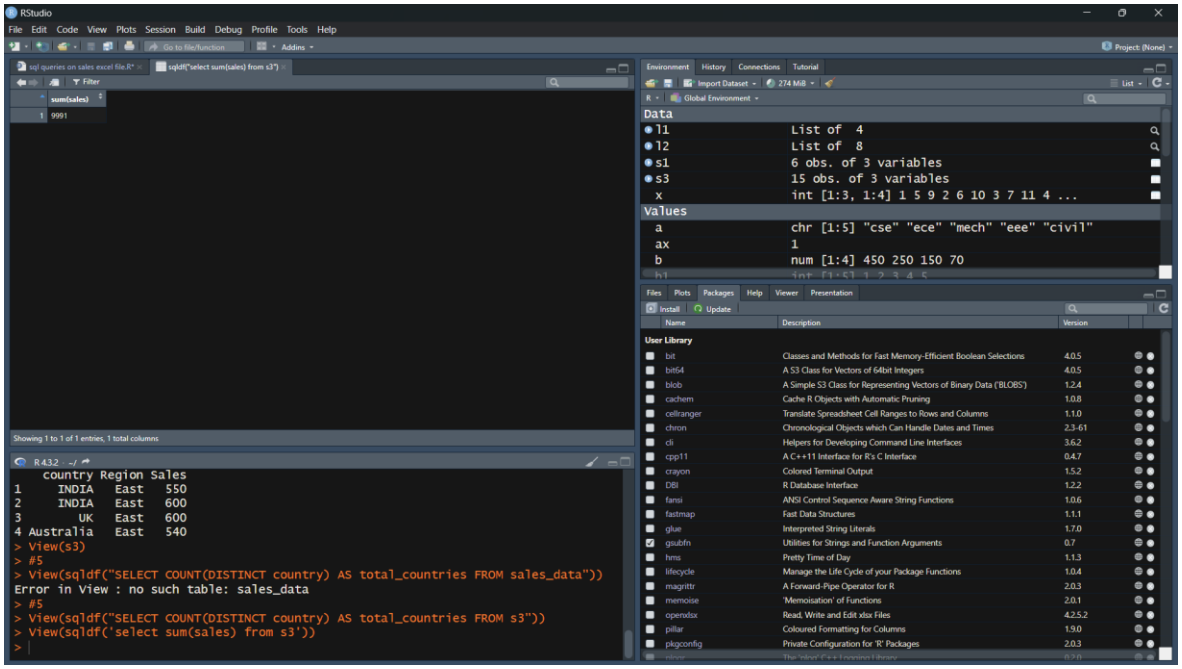
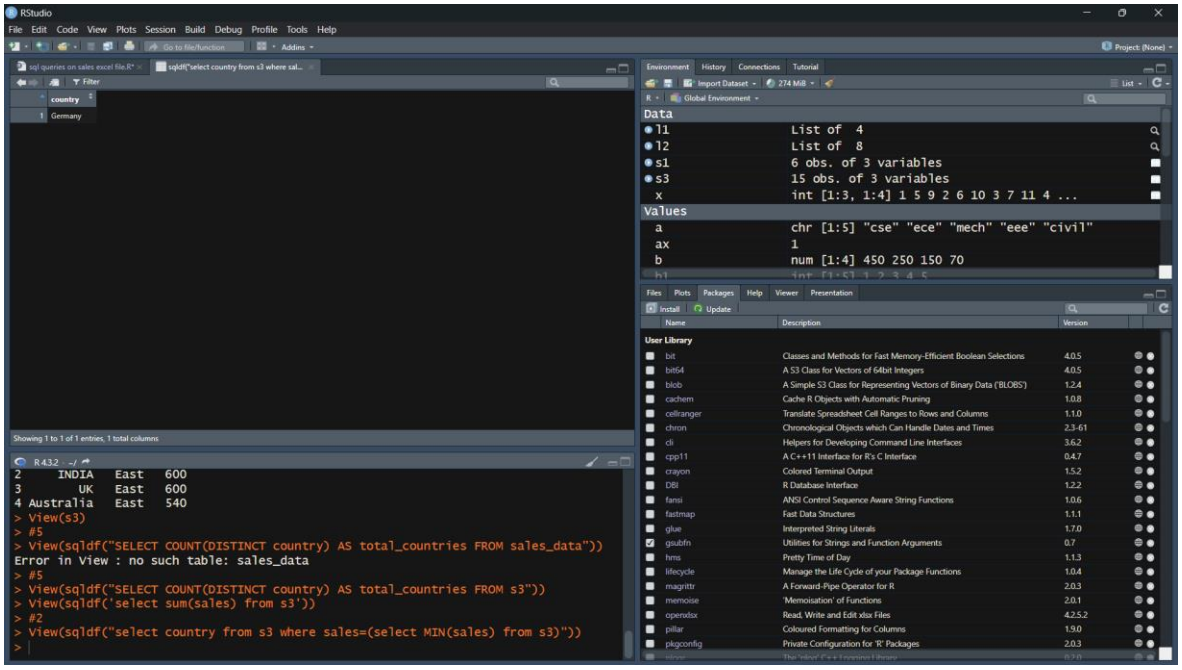


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
sum(sales)
1 9991
Showing 1 to 1 of 1 entries, 1 total columns
country Region Sales
1 INDIA East 550
2 INDIA East 600
3 UK East 600
4 Australia East 540
> View(s3)
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM sales_data"))
Error in View : no such table: sales_data
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
> View(sqldf('select sum(sales) from s3'))
Data
l1 List of 4
l2 List of 8
s1 6 obs. of 3 variables
s3 15 obs. of 3 variables
x int [1:3, 1:4] 1 5 9 2 6 10 3 7 11 4 ...
Values
a chr [1:5] "cse" "ece" "mech" "eee" "civil"
ax 1
b num [1:4] 450 250 150 70
User Library


RStudio
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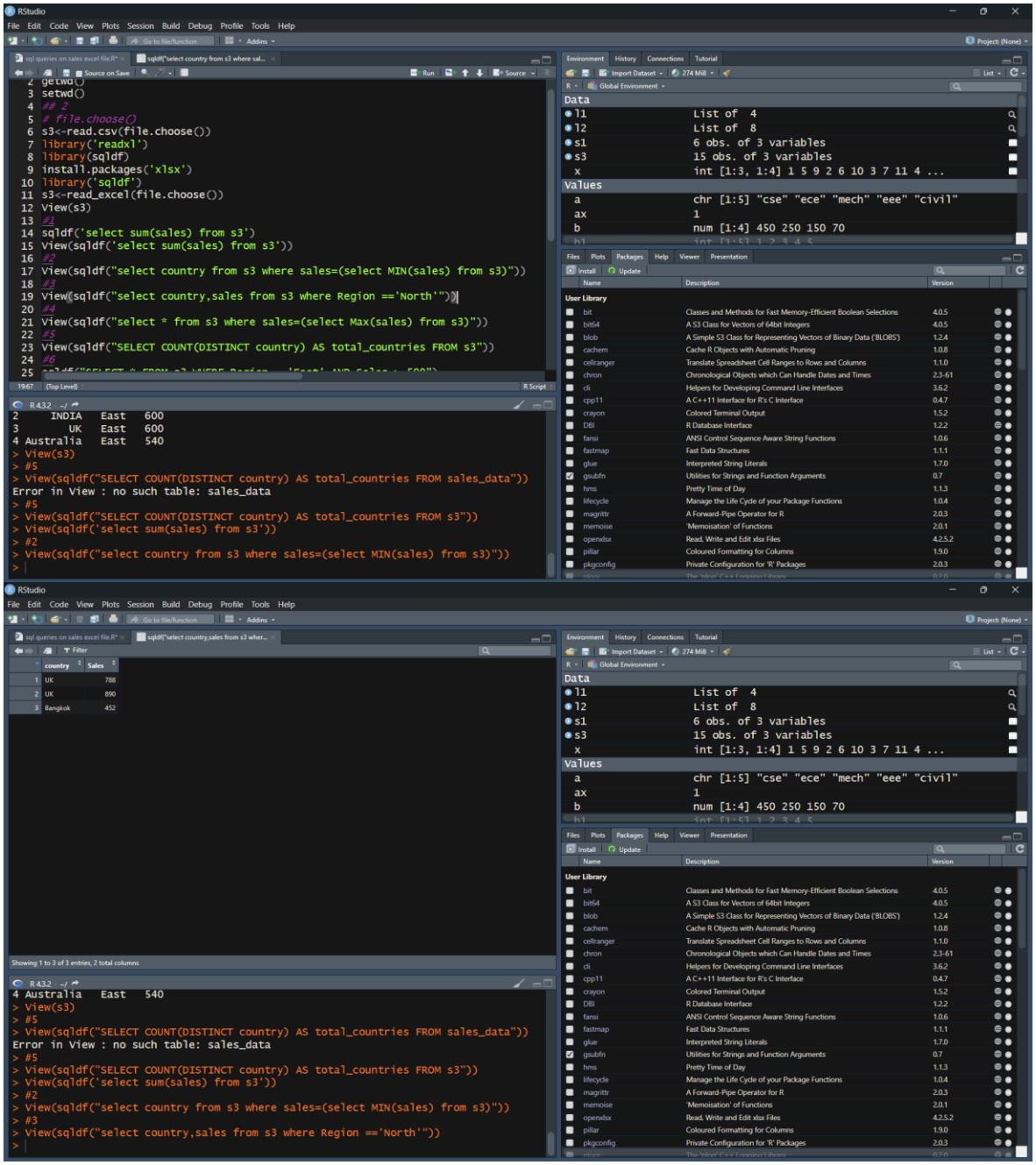
country
1 Germany
Showing 1 to 1 of 1 entries, 1 total columns
2 INDIA East 600
3 UK East 600
4 Australia East 540
> View(s3)
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM sales_data"))
Error in View : no such table: sales_data
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
> View(sqldf('select sum(sales) from s3'))
> #2
> View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
Data
l1 List of 4
l2 List of 8
s1 6 obs. of 3 variables
s3 15 obs. of 3 variables
x int [1:3, 1:4] 1 5 9 2 6 10 3 7 11 4 ...
Values
a chr [1:5] "cse" "ece" "mech" "eee" "civil"
ax 1
b num [1:4] 450 250 150 70
User Library


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
getwd()
setwd()
2
# file.choose()
s3<-read.csv(file.choose())
library('readxl')
library(sqldf)
install.packages('xlsx')
library('sqldf')
s3<-read_excel(file.choose())
View(s3)
#1
sqldf('select sum(sales) from s3')
View(sqldf('select sum(sales) from s3'))
#2
View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
#3
View(sqldf("select country,sales from s3 where Region =='North'"))
#4
View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
#5
View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
#6
2 INDIA East 600
3 UK East 600
4 Australia East 540
> View(s3)
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM sales_data"))
Error in View : no such table: sales_data
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
> View(sqldf('select sum(sales) from s3'))
> #2
> View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
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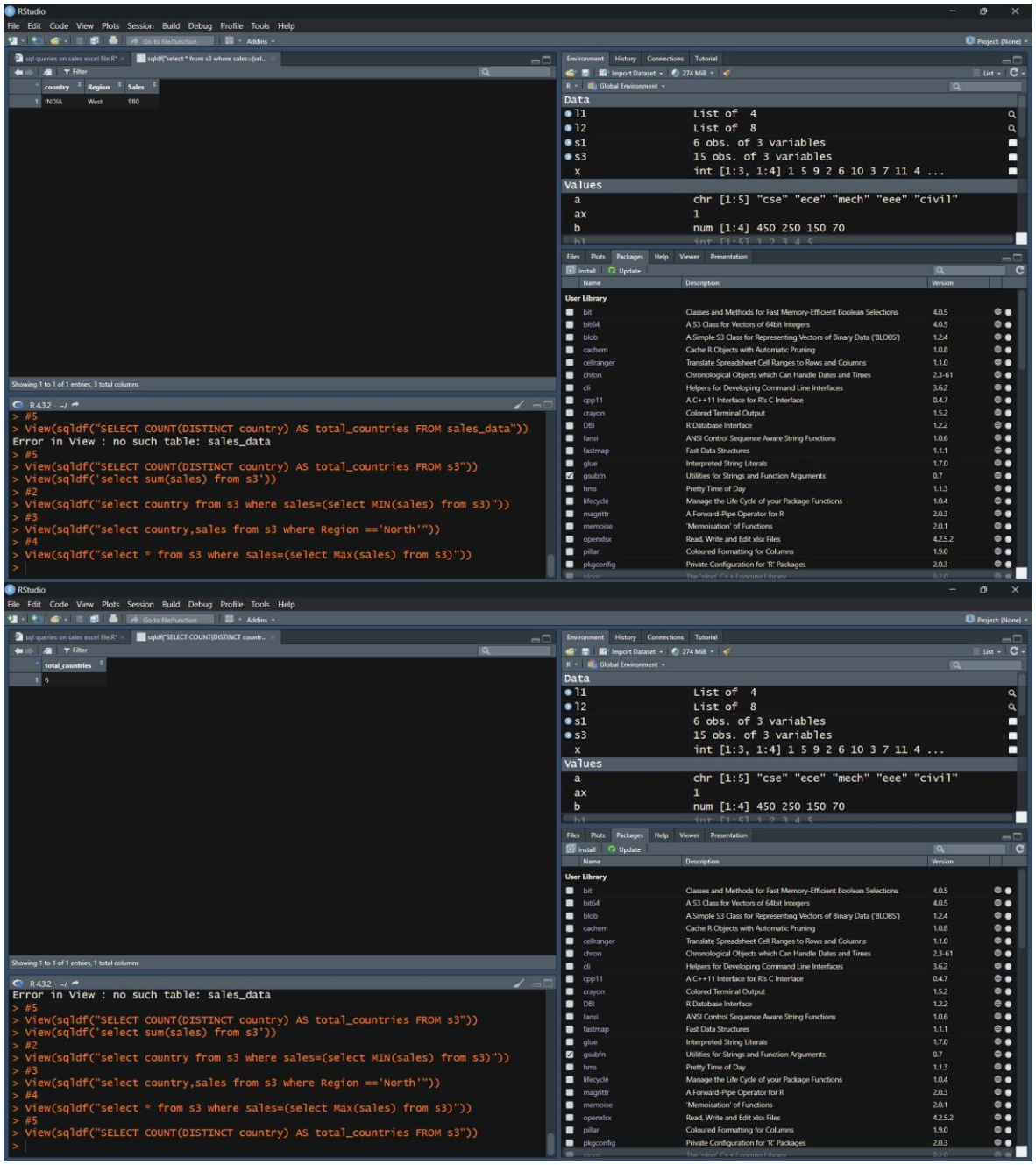
hms Pretty Time of Day 1.1.3
lifecycle Manage the Life Cycle of your Package Functions 1.0.4
magrittr A Forward-Pipe Operator for R 2.0.3
memoise 'Memoisation' of Functions 2.0.1
openxlsx Read, Write and Edit xlsx Files 4.2.5.2
pillar Coloured Formatting for Columns 1.9.0
pkgconfig Private Configuration for 'R' Packages 2.0.3
country Sales
1 UK 788
2 UK 890
3 Bangkok 452
Showing 1 to 3 of 3 entries, 2 total columns


RStudio
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country Region Sales
1 INDIA West 980
Showing 1 to 1 of 1 entries, 3 total columns
R 4.3.2 · ~/
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM sales_data"))
Error in View : no such table: sales_data
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
> View(sqldf('select sum(sales) from s3'))
> #2
> View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
> #3
> View(sqldf("select country,sales from s3 where Region =='North'"))
> #4
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pillar Coloured Formatting for Columns 1.9.0
pkgconfig Private Configuration for 'R' Packages 2.0.3
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total_countries
1 6
Showing 1 to 1 of 1 entries, 1 total columns
R 4.3.2 · ~/
Error in View : no such table: sales_data
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
> View(sqldf('select sum(sales) from s3'))
> #2
> View(sqldf("select country from s3 where sales=(select MIN(sales) from s3)"))
> #3
> View(sqldf("select country,sales from s3 where Region =='North'"))
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> View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
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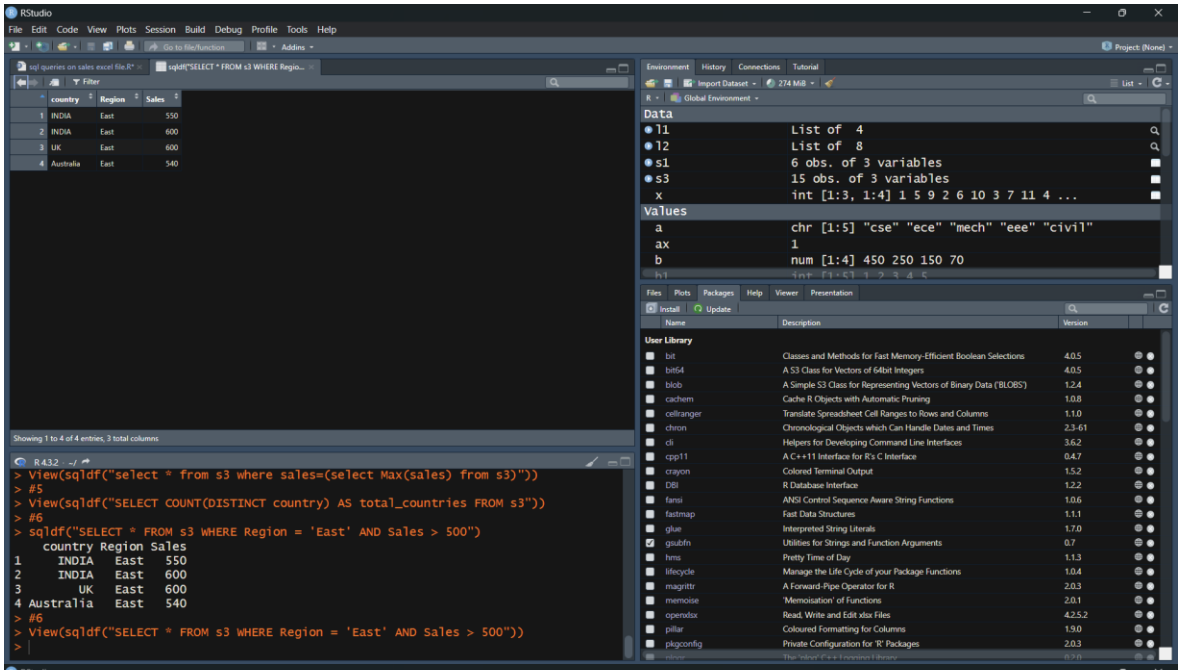
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sql queries on sales excel file.R*
sqldf("SELECT * FROM s3 WHERE Regio...
country Region Sales
1 INDIA East 550
2 INDIA East 600
3 UK East 600
4 Australia East 540
Showing 1 to 4 of 4 entries, 3 total columns
R 4.3.2 · ~/
> View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
> #5
> View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
> #6
> sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500")
country Region Sales
1 INDIA East 550
2 INDIA East 600
3 UK East 600
4 Australia East 540
> #6
> View(sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500"))
Environment History Connections Tutorial
Import Dataset 274 MiB
Global Environment
Data
l1 List of 4
l2 List of 8
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s3 15 obs. of 3 variables
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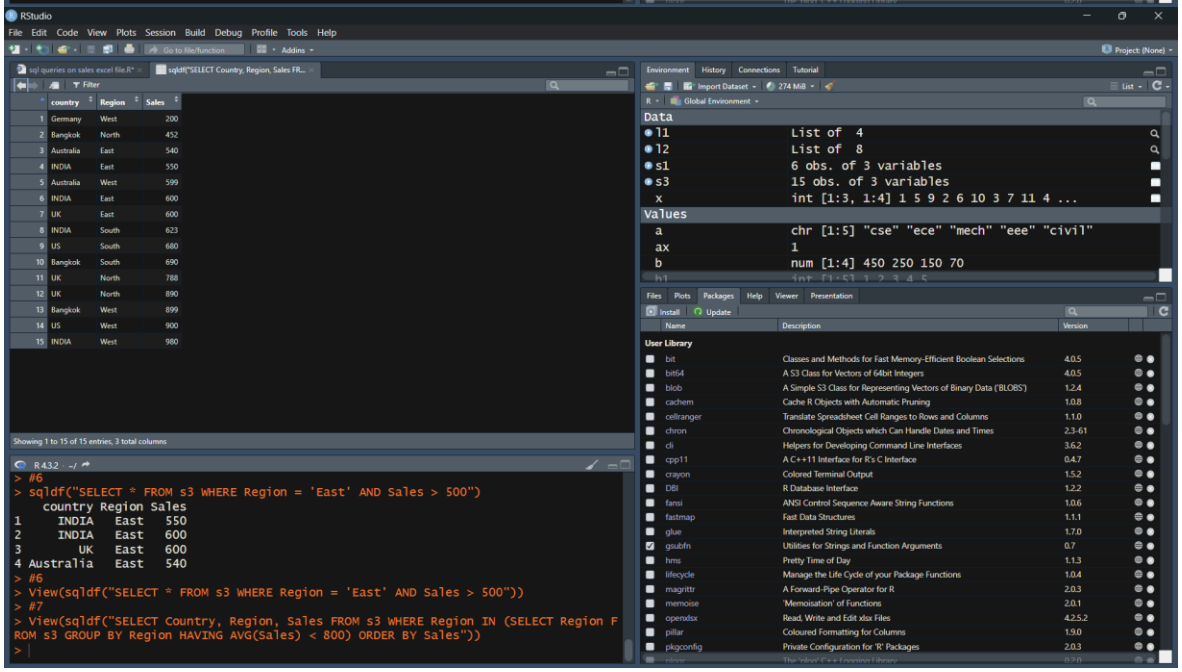
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
sql queries on sales excel file.R*
sqldf("SELECT Country, Region, Sales FR...
country Region Sales
1 Germany West 200
2 Bangkok North 452
3 Australia East 540
4 INDIA East 550
5 Australia West 599
6 INDIA East 600
7 UK East 600
8 INDIA South 623
9 US South 680
10 Bangkok South 690
11 UK North 788
12 UK North 890
13 Bangkok West 899
14 US West 900
15 INDIA West 980
Showing 1 to 15 of 15 entries, 3 total columns
R 4.3.2 · ~/
> #6
> sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500")
country Region Sales
1 INDIA East 550
2 INDIA East 600
3 UK East 600
4 Australia East 540
> #6
> View(sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500"))
> #7
> View(sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Region FROM s3 GROUP BY Region HAVING AVG(Sales) < 800) ORDER BY Sales"))
Environment History Connections Tutorial
Import Dataset 274 MiB
Global Environment
Data
l1 List of 4
l2 List of 8
s1 6 obs. of 3 variables
s3 15 obs. of 3 variables
x int [1:3, 1:4] 1 5 9 2 6 10 3 7 11 4 ...
Values
a chr [1:5] "cse" "ece" "mech" "eee" "civil"
ax 1
b num [1:4] 450 250 150 70
Files Plots Packages Help Viewer Presentation
Install Update
Name Description Version
User Library
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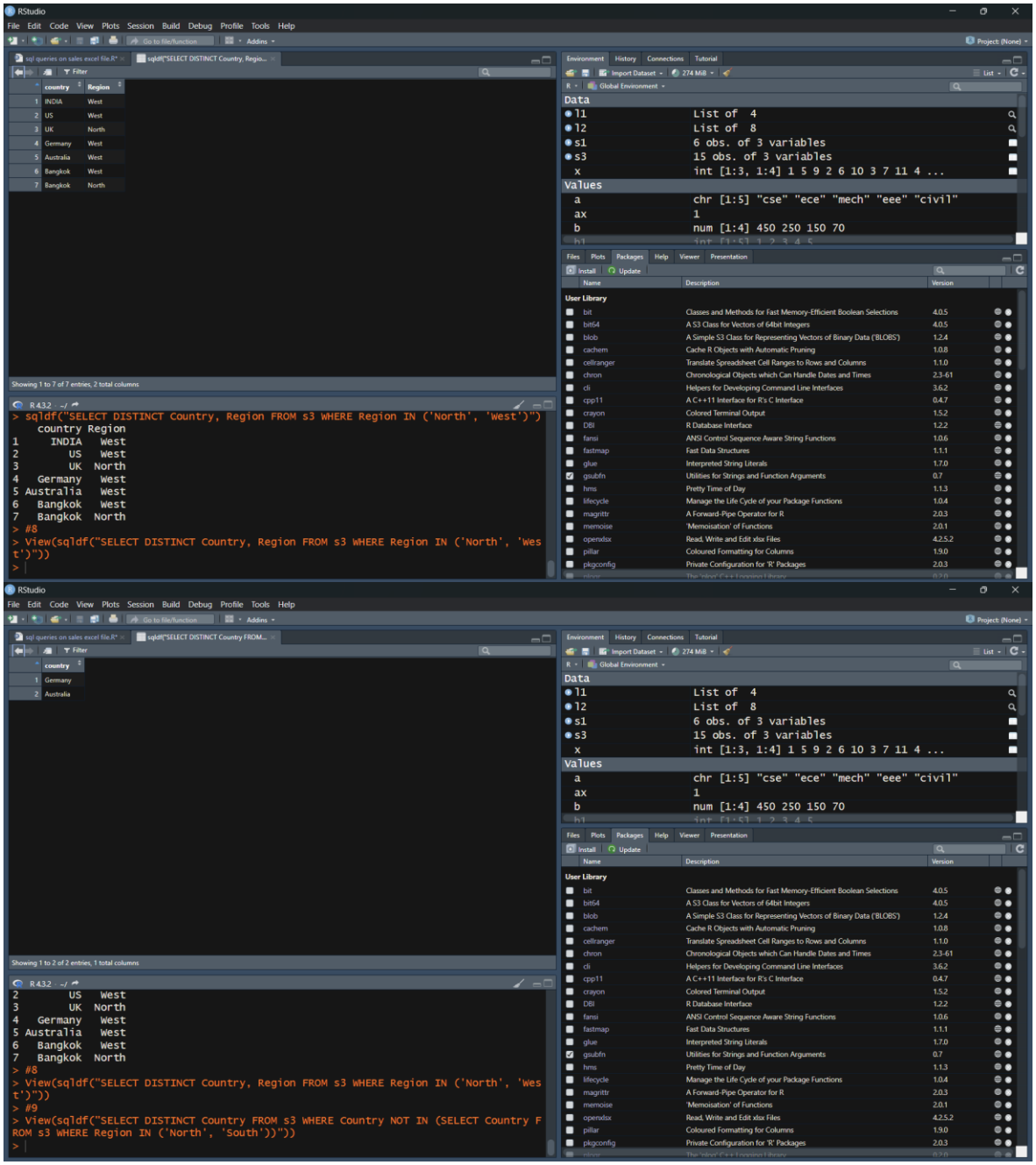
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File Edit Code View Plots Session Build Debug Profile Tools Help
sql queries on sales excel file.R*
sqldf("SELECT DISTINCT Country, Regio...
country Region
1 INDIA West
2 US West
3 UK North
4 Germany West
5 Australia West
6 Bangkok West
7 Bangkok North
Showing 1 to 7 of 7 entries, 2 total columns
R 4.3.2 · ~/
> sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'West')")
country Region
1 INDIA West
2 US West
3 UK North
4 Germany West
5 Australia West
6 Bangkok West
7 Bangkok North
> #8
> View(sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'West')"))
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s1 6 obs. of 3 variables
s3 15 obs. of 3 variables
x int [1:3, 1:4] 1 5 9 2 6 10 3 7 11 4 ...
Values
a chr [1:5] "cse" "ece" "mech" "eee" "civil"
ax 1
b num [1:4] 450 250 150 70
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sql queries on sales excel file.R*
sqldf("SELECT DISTINCT Country FROM...
country
1 Germany
2 Australia
Showing 1 to 2 of 2 entries, 1 total column
R 4.3.2 · ~/
2 US West
3 UK North
4 Germany West
5 Australia West
6 Bangkok West
7 Bangkok North
> #8
> View(sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'West')"))
> #9
> View(sqldf("SELECT DISTINCT Country FROM s3 WHERE Country NOT IN (SELECT Country FROM s3 WHERE Region IN ('North', 'South'))"))
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ax 1
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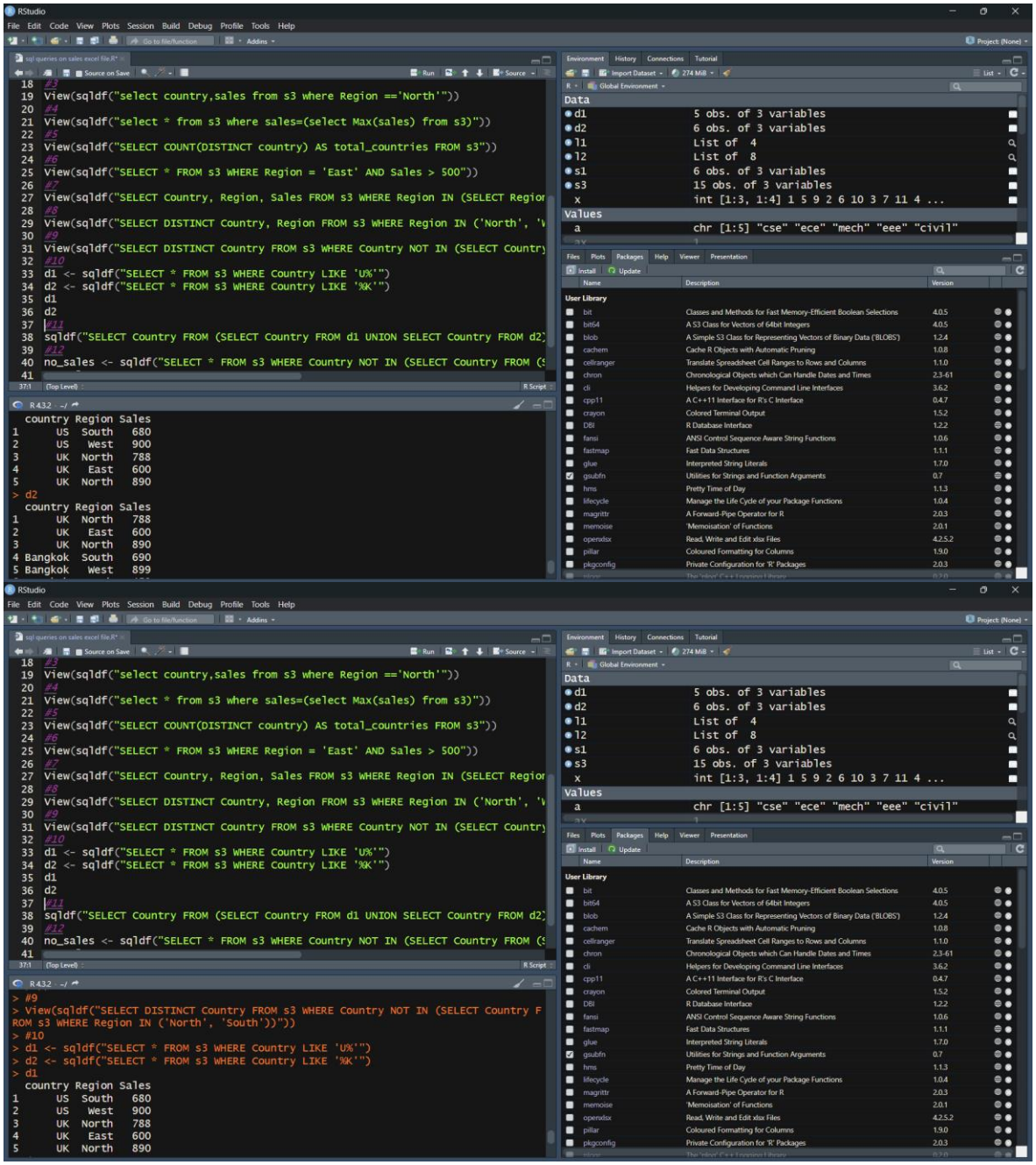
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18 #3
19 View(sqldf("select country,sales from s3 where Region =='North'"))
20 #4
21 View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
22 #5
23 View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
24 #6
25 View(sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500"))
26 #7
27 View(sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Regior
28 #8
29 View(sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'S
30 #9
31 View(sqldf("SELECT DISTINCT Country FROM s3 WHERE Country NOT IN (SELECT Country
32 #10
33 d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
34 d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
35 d1
36 d2
37 #11
38 sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2)
39 #12
40 no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (S
41
37:1 (Top Level) R Script
R 4.3.2 · ~/
country Region Sales
1 US South 680
2 US West 900
3 UK North 788
4 UK East 600
5 UK North 890
> d2
country Region Sales
1 UK North 788
2 UK East 600
3 UK North 890
4 Bangkok South 690
5 Bangkok West 899
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19 View(sqldf("select country,sales from s3 where Region =='North'"))
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21 View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
22 #5
23 View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
24 #6
25 View(sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500"))
26 #7
27 View(sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Regior
28 #8
29 View(sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'S
30 #9
31 View(sqldf("SELECT DISTINCT Country FROM s3 WHERE Country NOT IN (SELECT Country
32 #10
33 d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
34 d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
35 d1
36 d2
37 #11
38 sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2)
39 #12
40 no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (S
41
37:1 (Top Level) R Script
R 4.3.2 · ~/
> #9
> View(sqldf("SELECT DISTINCT Country FROM s3 WHERE Country NOT IN (SELECT Country F
ROM s3 WHERE Region IN ('North', 'South'))"))
> #10
> d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
> d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
> d1
country Region Sales
1 US South 680
2 US West 900
3 UK North 788
4 UK East 600
5 UK North 890
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Global Environment
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s3 15 obs. of 3 variables
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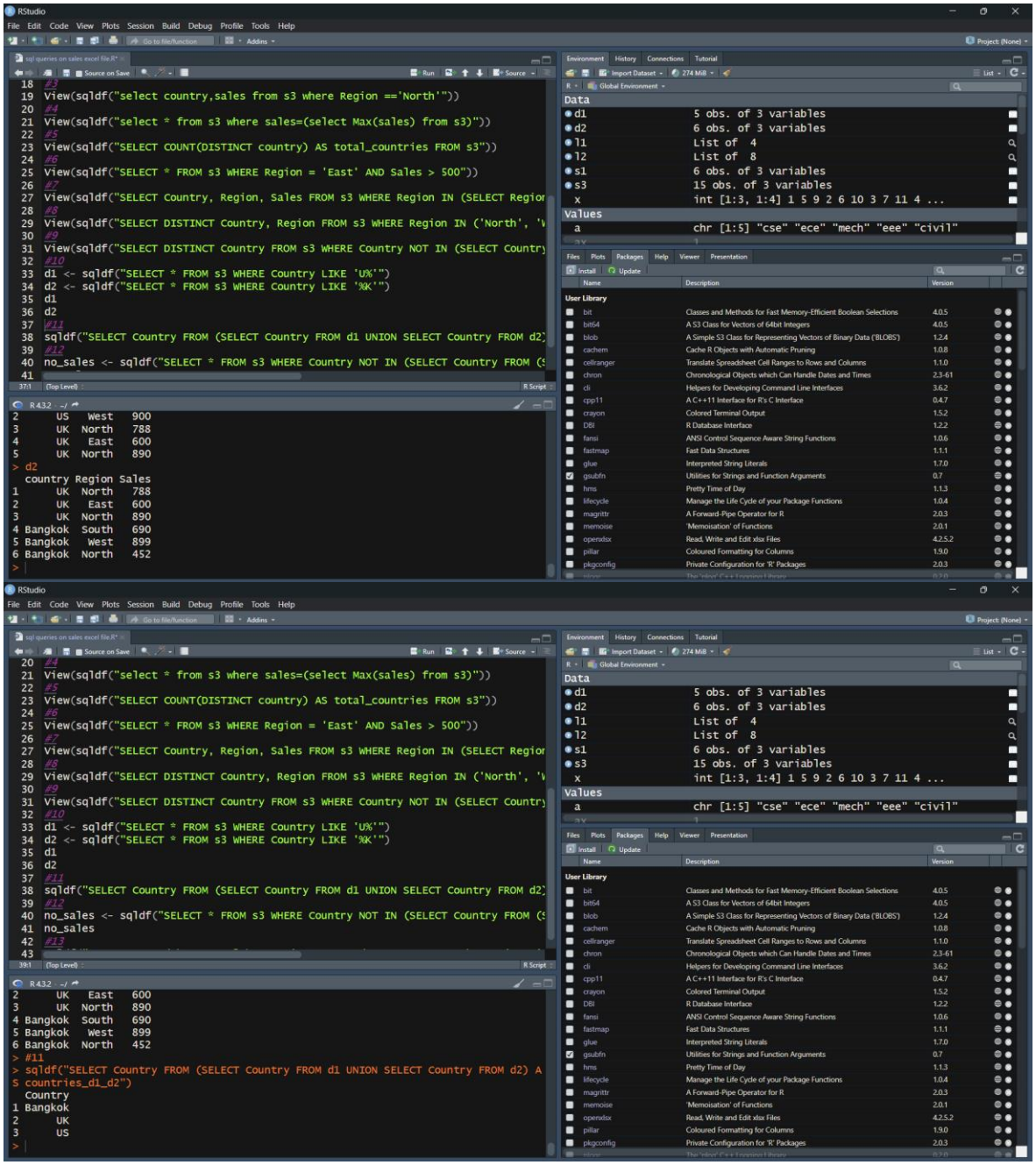
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sql queries on sales excel file.R*
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View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
#5
View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
#6
View(sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500"))
#7
View(sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Regior
#8
View(sqldf("SELECT DISTINCT Country, Region FROM s3 WHERE Region IN ('North', 'W
#9
View(sqldf("SELECT DISTINCT Country FROM s3 WHERE Country NOT IN (SELECT Country
#10
d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
d1
d2
#11
sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2)
#12
no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (S
37:1 (Top Level) R Script
R 4.3.2 · ~/
2 US West 900
3 UK North 788
4 UK East 600
5 UK North 890
> d2
country Region Sales
1 UK North 788
2 UK East 600
3 UK North 890
4 Bangkok South 690
5 Bangkok West 899
6 Bangkok North 452
>
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d2 6 obs. of 3 variables
l1 List of 4
l2 List of 8
s1 6 obs. of 3 variables
s3 15 obs. of 3 variables
x int [1:3, 1:4] 1 5 9 2 6 10 3 7 11 4 ...
Values
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#4
View(sqldf("select * from s3 where sales=(select Max(sales) from s3)"))
#5
View(sqldf("SELECT COUNT(DISTINCT country) AS total_countries FROM s3"))
#6
View(sqldf("SELECT * FROM s3 WHERE Region = 'East' AND Sales > 500"))
#7
View(sqldf("SELECT Country, Region, Sales FROM s3 WHERE Region IN (SELECT Regior
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d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
d1
d2
#11
sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2)
#12
no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (S
no_sales
#13
39:1 (Top Level) R Script
R 4.3.2 · ~/
2 UK East 600
3 UK North 890
4 Bangkok South 690
5 Bangkok West 899
6 Bangkok North 452
> #11
> sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2) A
S countries_d1_d2")
Country
1 Bangkok
2 UK
3 US
>
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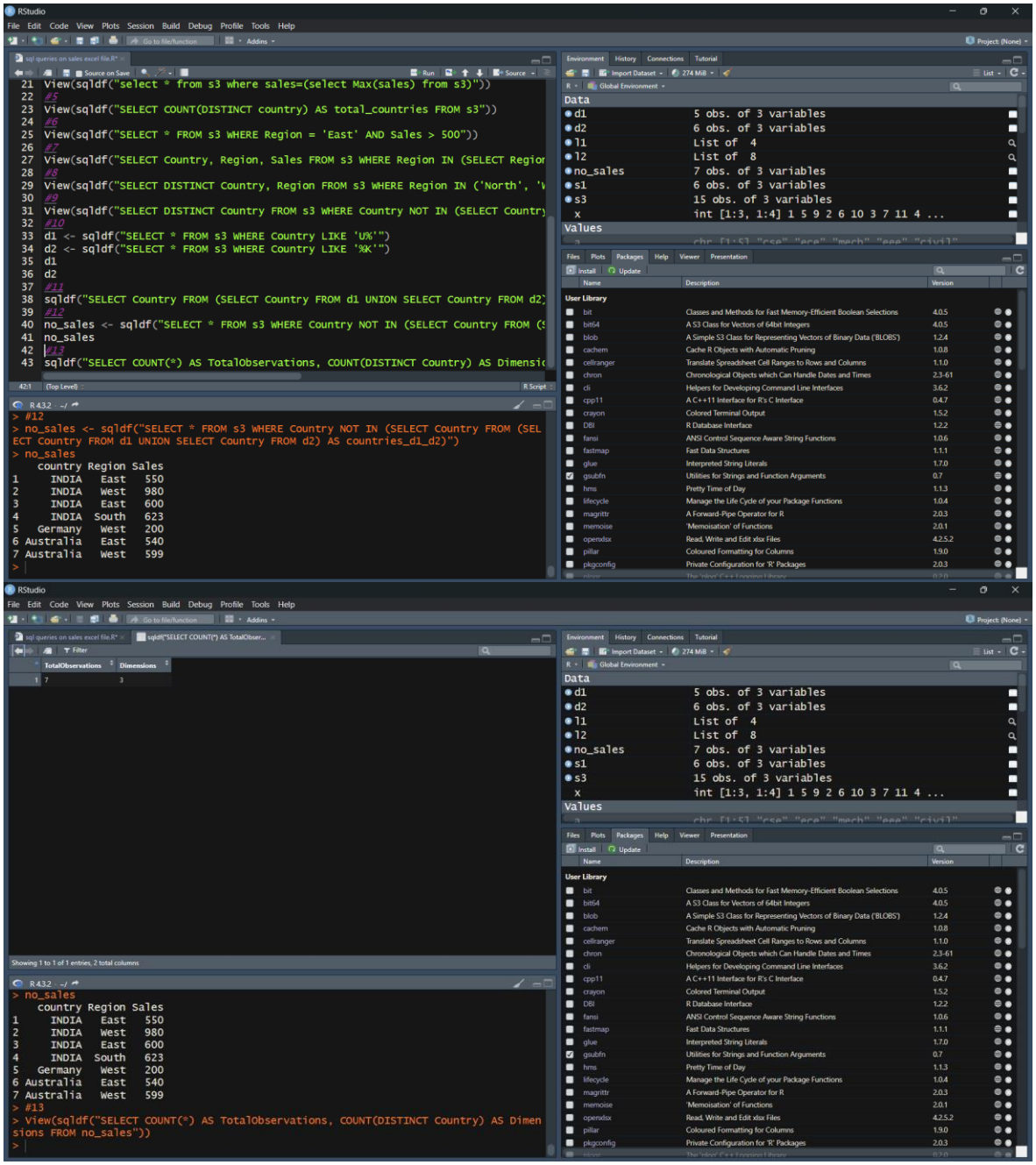
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33 d1 <- sqldf("SELECT * FROM s3 WHERE Country LIKE 'U%'")
34 d2 <- sqldf("SELECT * FROM s3 WHERE Country LIKE '%K'")
35 d1
36 d2
37 #11
38 sqldf("SELECT Country FROM (SELECT Country FROM d1 UNION SELECT Country FROM d2)
39 #12
40 no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (S
41 no_sales
42 #13
43 sqldf("SELECT COUNT(*) AS TotalObservations, COUNT(DISTINCT Country) AS Dimensic
42:1 (Top Level) R Script
R 4.3.2 ~/
> #12
> no_sales <- sqldf("SELECT * FROM s3 WHERE Country NOT IN (SELECT Country FROM (SEL
ECT Country FROM d1 UNION SELECT Country FROM d2) AS countries_d1_d2)")
> no_sales
country Region Sales
1 INDIA East 550
2 INDIA West 980
3 INDIA East 600
4 INDIA South 623
5 Germany West 200
6 Australia East 540
7 Australia West 599
>
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openxlsx Read, Write and Edit xlsx Files 4.2.5.2
pillar Coloured Formatting for Columns 1.9.0
pkgconfig Private Configuration for 'R' Packages 2.0.3
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
sql queries on sales excel file.R*
sqldf("SELECT COUNT(*) AS TotalObser...
Filter
TotalObservations Dimensions
1 7 3
Showing 1 to 1 of 1 entries, 2 total columns
R 4.3.2 ~/
> no_sales
country Region Sales
1 INDIA East 550
2 INDIA West 980
3 INDIA East 600
4 INDIA South 623
5 Germany West 200
6 Australia East 540
7 Australia West 599
> #13
> View(sqldf("SELECT COUNT(*) AS TotalObservations, COUNT(DISTINCT Country) AS Dimen
sions FROM no_sales"))
>
Environment History Connections Tutorial
Import Dataset 274 MiB
Global Environment
Data
d1 5 obs. of 3 variables
d2 6 obs. of 3 variables
l1 List of 4
l2 List of 8
no_sales 7 obs. of 3 variables
s1 6 obs. of 3 variables
s3 15 obs. of 3 variables
x int [1:3, 1:4] 1 5 9 2 6 10 3 7 11 4 ...
Values
Files Plots Packages Help Viewer Presentation
Install Update
Name Description Version
User Library
bit Classes and Methods for Fast Memory-Efficient Boolean Selections 4.0.5
bit64 A S3 Class for Vectors of 64bit Integers 4.0.5
blob A Simple S3 Class for Representing Vectors of Binary Data ('BLOBS') 1.2.4
cachem Cache R Objects with Automatic Pruning 1.0.8
cellranger Translate Spreadsheet Cell Ranges to Rows and Columns 1.1.0
chron Chronological Objects which Can Handle Dates and Times 2.3-61
cli Helpers for Developing Command Line Interfaces 3.6.2
cpp11 A C++11 Interface for R's C Interface 0.4.7
crayon Colored Terminal Output 1.5.2
DBI R Database Interface 1.2.2
fansi ANSI Control Sequence Aware String Functions 1.0.6
fastmap Fast Data Structures 1.1.1
glue Interpreted String Literals 1.7.0
gsubfn Utilities for Strings and Function Arguments 0.7
hms Pretty Time of Day 1.1.3
lifecycle Manage the Life Cycle of your Package Functions 1.0.4
magrittr A Forward-Pipe Operator for R 2.0.3
memoise 'Memoisation' of Functions 2.0.1
openxlsx Read, Write and Edit xlsx Files 4.2.5.2
pillar Coloured Formatting for Columns 1.9.0
pkgconfig Private Configuration for 'R' Packages 2.0.3