lab_exercise#3

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```
#install.packages("dplyr")
#install.packages("rvest")
#install.packages("polite")
#install.packages("httr")
library(dplyr)
## Warning: package 'dplyr' was built under R version 4.3.2
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
library(rvest)
## Warning: package 'rvest' was built under R version 4.3.2
library(polite)
## Warning: package 'polite' was built under R version 4.3.2
library(httr)
## Warning: package 'httr' was built under R version 4.3.2
reviews <- data.frame()</pre>
link <- "https://www.imdb.com/title/tt0111161/reviews?ref_=tt_urv"</pre>
session <- bow(link, user_agent = "Educational Purpose")</pre>
scrapeNodes <- function(selector) {</pre>
```

```
scrape(session) %>%
    html nodes(selector) %>%
    html_text(trim = TRUE)
}
titleMovie <- scrapeNodes("a.subnav_heading")</pre>
reviewer <- scrapeNodes("span.display-name-link")[1:10]</pre>
scrapedDate <- scrapeNodes("span.review-date")[1:10]</pre>
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]</pre>
scrapedReview <- scrapeNodes("div.text.show-more__control")[1:10]</pre>
scrapedTitleReview <- scrapeNodes("a.title")[1:10]</pre>
reviews <- rbind(reviews, data.frame(
  movie_title = rep(titleMovie, 10),
  reviewer_name = reviewer,
  review_date = scrapedDate,
  review_rating = scrapedRating,
  review_content = scrapedReview,
  review_title = scrapedTitleReview
))
reviews
```

```
##
                   movie_title
                                    reviewer_name
                                                        review_date review_rating
## 1
     The Shawshank Redemption hitchcockthelegend
                                                       24 July 2010
                                                                            10/10
     The Shawshank Redemption
                                   Sleepin_Dragon 17 February 2021
                                                                            10/10
## 3
     The Shawshank Redemption
                                         EyeDunno 21 November 2005
                                                                            10/10
## 4 The Shawshank Redemption
                                 alexkolokotronis 18 February 2008
                                                                            10/10
## 5 The Shawshank Redemption
                                         kaspen12 10 February 2006
                                                                            10/10
## 6 The Shawshank Redemption
                                           auuwws
                                                    8 October 2020
                                                                            10/10
## 7
     The Shawshank Redemption
                                           Coxer99
                                                      25 March 1999
                                                                            10/10
## 8 The Shawshank Redemption
                                           nowego
                                                       15 June 2018
                                                                            10/10
## 9 The Shawshank Redemption
                                                      13 July 1999
                                                                            10/10
                                           baumer
## 10 The Shawshank Redemption TheLittleSongbird
                                                      17 April 2009
                                                                            10/10
## 1
## 2
## 3
## 4
      In its Oscar year, Shawshank Redemption (written and directed by Frank Darabont, after the novell
## 6
## 7
## 8
## 9
## 10
##
                                                review_title
## 1
                       Some birds aren't meant to be caged.
## 2
              An incredible movie. One that lives with you.
## 3
                                      Don't Rent Shawshank.
## 4
                          This is How Movies Should Be Made
## 5
              A classic piece of unforgettable film-making.
## 6
                                   the shawshank redemption
```

The Shawshank Redemption

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CREATING CONNECTIONS

LISTING TABLES AND FIELDS

READING DATA FROM DATABASE

```
review_data <- dbGetQuery(connection, "SELECT * FROM olivo_2c.reviews")
glimpse(review_data)</pre>
```

INSERTING REVIEWS TO DATABASE

READ AND VIEW INSERTED DATA

```
review_data <- dbGetQuery(connection, "SELECT * FROM olivo_2c.reviews")
# VIEW REVIEWS without primary key "id"
review_data[,c(2:7)]</pre>
```

##			I	movie_title	reviewer_name	review	_date	review_rating
##	1	The	Shawshank	Redemption	hitchcockthelegend	24 July	2010	10/10
##	2	The	Shawshank	Redemption	Sleepin_Dragon	17 February	2021	10/10
##	3	The	Shawshank	Redemption	EyeDunno	21 November	2005	10/10
##	4	The	Shawshank	Redemption	alexkolokotronis	18 February	2008	10/10
##	5	The	Shawshank	Redemption	kaspen12	10 February	2006	10/10
##	6	The	Shawshank	Redemption	auuwws	8 October	2020	10/10
##	7	The	Shawshank	Redemption	Coxer99	25 March	1999	10/10
##	8	The	Shawshank	Redemption	nowego	15 June	2018	10/10
##	9	The	Shawshank	Redemption	baumer	13 July	1999	10/10
##	10	The	Shawshank	Redemption	TheLittleSongbird	17 April	2009	10/10
##	11	The	Shawshank	Redemption	hitchcockthelegend	24 July	2010	10/10
##	12	The	Shawshank	Redemption	Sleepin_Dragon	17 February	2021	10/10
##	13	The	Shawshank	Redemption	EyeDunno	21 November	2005	10/10
##	14	The	Shawshank	Redemption	alexkolokotronis	18 February	2008	10/10
##	15	The	Shawshank	${\tt Redemption}$	kaspen12	10 February	2006	10/10
##	16	The	Shawshank	${\tt Redemption}$	auuwws	8 October	2020	10/10
##	17	The	Shawshank	${\tt Redemption}$	Coxer99	25 March	1999	10/10
##	18	The	Shawshank	Redemption	nowego	15 June	2018	10/10
##	19	The	Shawshank	Redemption	baumer	13 July	1999	10/10
##	20	The	Shawshank	Redemption	TheLittleSongbird	17 April	2009	10/10
##	21	The	Shawshank	${\tt Redemption}$	${\tt hitchcockthelegend}$	24 July	2010	10/10
##	22	The	Shawshank	Redemption	Sleepin_Dragon	17 February	2021	10/10
##	23	The	Shawshank	${\tt Redemption}$	EyeDunno	21 November	2005	10/10
##	24	The	Shawshank	${\tt Redemption}$	alexkolokotronis	18 February	2008	10/10
##	25	The	Shawshank	Redemption	kaspen12	10 February	2006	10/10

```
## 26 The Shawshank Redemption
                                                     8 October 2020
                                                                             10/10
                                            auuwws
                                                                             10/10
## 27 The Shawshank Redemption
                                           Coxer99
                                                      25 March 1999
## 28 The Shawshank Redemption
                                            nowego
                                                       15 June 2018
                                                                             10/10
## 29 The Shawshank Redemption
                                                                             10/10
                                            baumer
                                                        13 July 1999
## 30 The Shawshank Redemption TheLittleSongbird
                                                      17 April 2009
                                                                             10/10
##
## 1
## 2
## 3
## 4
      In its Oscar year, Shawshank Redemption (written and directed by Frank Darabont, after the novell
## 6
## 7
## 8
## 9
## 10
## 11
## 12
## 13
## 14
## 15 In its Oscar year, Shawshank Redemption (written and directed by Frank Darabont, after the novell
## 17
## 18
## 19
## 20
## 21
## 22
## 23
## 25
      In its Oscar year, Shawshank Redemption (written and directed by Frank Darabont, after the novell
## 27
## 28
## 29
## 30
##
                                                review_title
## 1
                       Some birds aren't meant to be caged.
## 2
              An incredible movie. One that lives with you.
## 3
                                       Don't Rent Shawshank.
## 4
                          This is How Movies Should Be Made
## 5
              A classic piece of unforgettable film-making.
## 6
                                    the shawshank redemption
## 7
                                    The Shawshank Redemption
## 8
                                                Eternal Hope
## 9
                           Stephen King's best adapted movie
## 10 Enthralling, fantastic, intriguing, truly remarkable!
## 11
                       Some birds aren't meant to be caged.
## 12
              An incredible movie. One that lives with you.
## 13
                                       Don't Rent Shawshank.
## 14
                          This is How Movies Should Be Made
## 15
              A classic piece of unforgettable film-making.
## 16
                                    the shawshank redemption
## 17
                                    The Shawshank Redemption
```

```
## 18
                                                Eternal Hope
## 19
                          Stephen King's best adapted movie
## 20 Enthralling, fantastic, intriguing, truly remarkable!
## 21
                       Some birds aren't meant to be caged.
              An incredible movie. One that lives with you.
## 22
## 23
                                      Don't Rent Shawshank.
## 24
                          This is How Movies Should Be Made
## 25
              A classic piece of unforgettable film-making.
## 26
                                   the shawshank redemption
## 27
                                   The Shawshank Redemption
## 28
                                                Eternal Hope
## 29
                          Stephen King's best adapted movie
## 30 Enthralling, fantastic, intriguing, truly remarkable!
#View(review_data[,c(2:7)])
# Export to csv
write.csv(review_data[,c(2:7)], "review_data.csv")
# Close the database connection
dbDisconnect(connection)
```

[1] TRUE