

Activity 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 4.3.3
```

```
##
```

```
## 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 4.3.3
```

```
library(polite)
```

```
## Warning: package 'polite' was built under R version 4.3.3
```

```
library(httr)
```

```
## Warning: package 'httr' was built under R version 4.3.3
```

```
reviews <- data.frame()
```

```
link <- "https://www.imdb.com/title/tt0903747/reviews?ref_=tt_urv"
```

```
session <- bow(link, user_agent = "Educational Purpose")
```

```
scrapeNodes <- function(selector) {
```

```

scrape(session) %>%
  html_nodes(selector) %>%
  html_text(trim = TRUE)
}

titleMovie <- scrapeNodes("a.subnav_heading")
reviewer <- scrapeNodes("span.display-name-link")[1:10]
scrapedDate <- scrapeNodes("span.review-date")[1:10]
scrapedRating <- scrapeNodes("span.rating-other-user-rating")[1:10]
scrapedReview <- scrapeNodes("div.text.show-more__control")[1:10]
scrapedTitleReview <- scrapeNodes("a.title")[1:10]

reviews <- rbind(reviews, data.frame(
  movie_title = rep(titleMovie, 10),
  reviewer_name = reviewer,
  reviewer_date = scrapedDate,
  review_rating = scrapedRating,
  review_content = scrapedReview,
  review_title = scrapedTitleReview
))

reviews

```

```

##      movie_title      reviewer_name  reviewer_date review_rating
## 1 Breaking Bad      FiRE010      4 July 2021      10/10
## 2 Breaking Bad      Supermanfan-13  9 November 2021      10/10
## 3 Breaking Bad      DiCaprioFan1  9 December 2022      10/10
## 4 Breaking Bad      TheLittleSongbird 13 November 2017      10/10
## 5 Breaking Bad      KinoKoopKid     30 July 2021      10/10
## 6 Breaking Bad      gogoschka-1    12 January 2014      10/10
## 7 Breaking Bad      jehuschultz    19 February 2020      10/10
## 8 Breaking Bad      bruhperson      7 March 2019      10/10
## 9 Breaking Bad      Leofwine_draca   5 May 2021      10/10
## 10 Breaking Bad     dhanushreddy-14919 18 July 2021      10/10
##
## 1
## 2
## 3
## 4 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever
## 5
## 6
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##
## 1
## 2
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## 4
## 5
## 6 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockt
## 7

```

Among the best and most a

```
## 8
## 9
## 10
```

```
// creating connections
```

```
library(dplyr,dbplyr)
library(RMySQL)
```

```
## Warning: package 'RMySQL' was built under R version 4.3.3
```

```
## Loading required package: DBI
```

```
## Warning: package 'DBI' was built under R version 4.3.2
```

```
#creating connections
connection <- dbConnect(RMySQL::MySQL(),
  dsn="MariaDB-connection",
  Server = "localhost",
  dbname = "canonicato_2c",
  user = "root",
  password = "")
```

```
dbListTables(connection)
```

```
## [1] "arvixtable" "lab2movies" "reviews"
```

```
dbListFields(connection,"reviews")
```

```
## [1] "id"          "movie_title" "reviewer_name" "reviewer_date"
## [5] "review_rating" "review_content" "review_title"
```

```
// reading data from database
```

```
review_data <- dbGetQuery(connection, "SELECT * FROM canonicato_2c.reviews")
```

```
glimpse(review_data)
```

```
## Rows: 50
## Columns: 7
## $ id          <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, ~
## $ movie_title <chr> "Breaking Bad", "Breaking Bad", "Breaking Bad", "Breaki~
## $ reviewer_name <chr> "FiRE010", "Supermanfan-13", "DiCaprioFan1", "TheLittle~
## $ reviewer_date <chr> "4 July 2021", "9 November 2021", "9 December 2022", "1~
## $ review_rating <chr> "10/10", "10/10", "10/10", "10/10", "10/10", "10/10", "~
## $ review_content <chr> "I have never watched a show that is as consistently ge~
## $ review_title <chr> "Really Great", "Damn near perfect!", "Absolutely Brill~
```

```
// inserting reviews
```

```

for (i in 1:nrow(reviews)) {
  query <- paste0("INSERT INTO reviews (movie_title, reviewer_name, reviewer_date, review_rating, review_content)
VALUES ('", reviews$movie_title[i], "','", reviews$reviewer_name[i], "','", reviews$reviewer_date[i], "','",
gsub("'", "", reviews$review_content[i]), "','", gsub("'", "", reviews$review_title[i]), "','")")

  # execute query
  query_result <- dbSendQuery(connection, query)

  # clear result after executing query
  dbClearResult(query_result)
}

```

// read and view

```

review_data <- dbGetQuery(connection, "SELECT * FROM canonicato_2c.reviews")

# VIEW REVIEWS without primary key "id"
review_data[,c(2:7)]

```

##	movie_title	reviewer_name	reviewer_date	review_rating
## 1	Breaking Bad	FiRE010	4 July 2021	10/10
## 2	Breaking Bad	Supermanfan-13	9 November 2021	10/10
## 3	Breaking Bad	DiCaprioFan1	9 December 2022	10/10
## 4	Breaking Bad	TheLittleSongbird	13 November 2017	10/10
## 5	Breaking Bad	KinoKoopakid	30 July 2021	10/10
## 6	Breaking Bad	jehuschultz	19 February 2020	10/10
## 7	Breaking Bad	gogoschka-1	12 January 2014	10/10
## 8	Breaking Bad	bruhserson	7 March 2019	10/10
## 9	Breaking Bad	Leofwine_draca	5 May 2021	10/10
## 10	Breaking Bad	dhanushreddy-14919	18 July 2021	10/10
## 11	Breaking Bad	FiRE010	4 July 2021	10/10
## 12	Breaking Bad	Supermanfan-13	9 November 2021	10/10
## 13	Breaking Bad	DiCaprioFan1	9 December 2022	10/10
## 14	Breaking Bad	TheLittleSongbird	13 November 2017	10/10
## 15	Breaking Bad	KinoKoopakid	30 July 2021	10/10
## 16	Breaking Bad	jehuschultz	19 February 2020	10/10
## 17	Breaking Bad	gogoschka-1	12 January 2014	10/10
## 18	Breaking Bad	bruhserson	7 March 2019	10/10
## 19	Breaking Bad	Leofwine_draca	5 May 2021	10/10
## 20	Breaking Bad	dhanushreddy-14919	18 July 2021	10/10
## 21	Breaking Bad	FiRE010	4 July 2021	10/10
## 22	Breaking Bad	Supermanfan-13	9 November 2021	10/10
## 23	Breaking Bad	DiCaprioFan1	9 December 2022	10/10
## 24	Breaking Bad	TheLittleSongbird	13 November 2017	10/10
## 25	Breaking Bad	KinoKoopakid	30 July 2021	10/10
## 26	Breaking Bad	jehuschultz	19 February 2020	10/10
## 27	Breaking Bad	gogoschka-1	12 January 2014	10/10
## 28	Breaking Bad	bruhserson	7 March 2019	10/10
## 29	Breaking Bad	Leofwine_draca	5 May 2021	10/10
## 30	Breaking Bad	dhanushreddy-14919	18 July 2021	10/10
## 31	Breaking Bad	FiRE010	4 July 2021	10/10
## 32	Breaking Bad	Supermanfan-13	9 November 2021	10/10

## 33	Breaking Bad	DiCaprioFan1	9 December 2022	10/10
## 34	Breaking Bad	TheLittleSongbird	13 November 2017	10/10
## 35	Breaking Bad	KinoKoopakid	30 July 2021	10/10
## 36	Breaking Bad	jehuschultz	19 February 2020	10/10
## 37	Breaking Bad	gogoschka-1	12 January 2014	10/10
## 38	Breaking Bad	bruhperson	7 March 2019	10/10
## 39	Breaking Bad	Leofwine_draca	5 May 2021	10/10
## 40	Breaking Bad	dhanushreddy-14919	18 July 2021	10/10
## 41	Breaking Bad	FiRE010	4 July 2021	10/10
## 42	Breaking Bad	Supermanfan-13	9 November 2021	10/10
## 43	Breaking Bad	DiCaprioFan1	9 December 2022	10/10
## 44	Breaking Bad	TheLittleSongbird	13 November 2017	10/10
## 45	Breaking Bad	KinoKoopakid	30 July 2021	10/10
## 46	Breaking Bad	jehuschultz	19 February 2020	10/10
## 47	Breaking Bad	gogoschka-1	12 January 2014	10/10
## 48	Breaking Bad	bruhperson	7 March 2019	10/10
## 49	Breaking Bad	Leofwine_draca	5 May 2021	10/10
## 50	Breaking Bad	dhanushreddy-14919	18 July 2021	10/10
## 51	Breaking Bad	FiRE010	4 July 2021	10/10
## 52	Breaking Bad	Supermanfan-13	9 November 2021	10/10
## 53	Breaking Bad	DiCaprioFan1	9 December 2022	10/10
## 54	Breaking Bad	TheLittleSongbird	13 November 2017	10/10
## 55	Breaking Bad	KinoKoopakid	30 July 2021	10/10
## 56	Breaking Bad	gogoschka-1	12 January 2014	10/10
## 57	Breaking Bad	jehuschultz	19 February 2020	10/10
## 58	Breaking Bad	bruhperson	7 March 2019	10/10
## 59	Breaking Bad	Leofwine_draca	5 May 2021	10/10
## 60	Breaking Bad	dhanushreddy-14919	18 July 2021	10/10

##

1

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4 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever

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14 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever

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24 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever

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```

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## 33
## 34 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever
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## 43
## 44 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever
## 45
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## 53
## 54 'Breaking Bad' is one of the most popular rated shows on IMDb, is one of those rarities where ever
## 55
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##
## 1
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## 7 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockta
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## 11
## 12
## 13
## 14
## 15
## 16
## 17 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockta
## 18

```

Among the best and most a

Every bit a

Among the best and most a

```

## 19                                     Every bit a
## 20
## 21
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## 24                                     Among the best and most a
## 25
## 26
## 27 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockta
## 28
## 29                                     Every bit a
## 30
## 31
## 32
## 33
## 34                                     Among the best and most a
## 35
## 36
## 37 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockta
## 38
## 39                                     Every bit a
## 40
## 41
## 42
## 43
## 44                                     Among the best and most a
## 45
## 46
## 47 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockta
## 48
## 49                                     Every bit a
## 50
## 51
## 52
## 53
## 54                                     Among the best and most a
## 55
## 56 If you mix Scarface, Robin Hood and maybe Tyler Durden with enough meth - you'll get a mean cockta
## 57
## 58
## 59                                     Every bit a
## 60

```

```

#View(review_data[,c(2:7)])

# Export to csv
write.csv(review_data[,c(2:7)], "LabEx3.csv")

```

```
// closing the database connections
```

```
dbDisconnect(connection)
```

```
## [1] TRUE
```