Lab Exercise 3

Ace Bagilidad

2024-02-22

10 MOVIES REVIEWS

```
# install.packages("polite")
# install.packages("httr")
# install.packages("rvest")
# install.packages("selectr")
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
library(rvest)
## Warning: package 'rvest' was built under R version 4.3.2
library(selectr)
## Warning: package 'selectr' was built under R version 4.3.2
#Scraping of Movies
scrapingNodes <- function(session, HTMLnodes) {</pre>
  session %>% scrape() %>% html_nodes(HTMLnodes) %>% html_text()
prodDetails <- function(link) {</pre>
  session <- bow(link, user_agent = "For Educational Purpose")</pre>
  Title <- scrapingNodes(session, "a.subnav_heading")</pre>
```

movieReviewer <- scrapingNodes(session, "span.display-name-link")[1:10]
reviewText <- scrapingNodes(session, "div.text.show-more_control")[1:10]</pre>

movieRating <- scrapingNodes(session, "span.rating-other-user-rating")[1:10]

RevDate <- scrapingNodes(session, "span.review-date")[1:10]</pre>

```
titleReview <- scrapingNodes(session, "a.title")[1:10]</pre>
  Imdb <- data.frame(</pre>
                            Movie_Title = Title,
                            Reviewer = movieReviewer,
                            Review_Date = RevDate,
                            Rating = movieRating,
                            Review = reviewText,
                            Review_Title = titleReview
  return(Imdb)
}
link1 <- "https://www.imdb.com/title/tt0068646/reviews?ref_=tt_urv"</pre>
MovieReviewsData <- prodDetails(link1)</pre>
#View(MovieReviewsData)
Connection to Database
#@install.packages("RMySQL")
library(dplyr,dbplyr)
## 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(RMySQL)
## Warning: package 'RMySQL' was built under R version 4.3.2
## Loading required package: DBI
## Warning: package 'DBI' was built under R version 4.3.2
#creating connections
connection <- dbConnect(RMySQL::MySQL(),</pre>
                         dsn="MariaDB-connection",
                         Server = "localhost",
                         dbname = "movie",
                         user = "root",
                         password = "")
```

```
dbListTables(connection)
## [1] "reviews"
dbListFields(connection, "reviews")
## [1] "id"
                                                 "Movie_Title"
                                                                                 "Reviewer"
                                                                                                                   "Review_Date"
                                                                                                                                                    "Rating"
## [6] "Review"
                                                "Review_Title"
Reading Data from the Database
review_data <- dbGetQuery(connection, "SELECT * FROM movie.reviews")
glimpse(review_data)
## Rows: 60
## Columns: 7
## $ id
                                       <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17~
## $ Movie_Title <chr> "The Godfather", 
## $ Review_Date <chr> "20 June 2014", "1 April 2019", "6 February 2021", "11 Fe~
## $ Rating
                                       <chr> "\n
                                                                                     10/10\n
                                                                                                                               ", "\n
## $ Review
                                       <chr> "'The Godfather' is the pinnacle of flawless films! The f~
## $ Review_Title <chr> " The Pinnacle Of Flawless Films!\n", " An offer so good,~
Adding reviews to the database
for (i in 1:nrow(MovieReviewsData)) {
        query <- paste0("INSERT INTO reviews (Movie_Title, Reviewer, Review_Date, Rating, Review, Review_Ti
                                       VALUES ('", MovieReviewsData$Movie_Title[i],"','", MovieReviewsData$Reviewer[i], "','
                                       gsub(""",""", MovieReviewsData$Review[i]), "","", gsub(""",""", MovieReviewsData$Re
    # this execute the query
    query_result <- dbSendQuery(connection, query)</pre>
    # clear result after executing query
    dbClearResult(query_result)
Reading Data from the Database
review_data <- dbGetQuery(connection, "SELECT * FROM movie.reviews")</pre>
#removing the id in the dataframe
review_data[,c(2:7)]
##
                 Movie_Title
                                                                 Reviewer
                                                                                                Review_Date
## 1 The Godfather
                                                                                              20 June 2014
                                                                   CalRhys
## 2 The Godfather andrewburgereviews
                                                                                              1 April 2019
```

```
The Godfather
                         Sleepin Dragon 6 February 2021
                            gogoschka-1 11 February 2018
      The Godfather
## 5
      The Godfather
                      Marshall-D-Teach 23 February 2020
## 6
      The Godfather
                                            21 June 2008
                      alexkolokotronis
## 7
      The Godfather
                            b-a-h TNT-6
                                            5 March 2002
## 8
      The Godfather
                                           30 March 2013
                         planktonrules
## 9
      The Godfather
                                            18 July 2010
                     TheLittleSongbird
## 10 The Godfather
                            mattrochman
                                         14 October 2006
## 11 The Godfather
                                CalRhvs
                                            20 June 2014
## 12 The Godfather
                    andrewburgereviews
                                            1 April 2019
## 13 The Godfather
                        Sleepin_Dragon
                                         6 February 2021
## 14 The Godfather
                            gogoschka-1 11 February 2018
                      Marshall-D-Teach 23 February 2020
## 15 The Godfather
## 16 The Godfather
                       alexkolokotronis
                                            21 June 2008
## 17 The Godfather
                            b-a-h TNT-6
                                            5 March 2002
## 18 The Godfather
                         planktonrules
                                           30 March 2013
## 19 The Godfather
                     TheLittleSongbird
                                            18 July 2010
## 20 The Godfather
                            mattrochman
                                         14 October 2006
## 21 The Godfather
                                            20 June 2014
                                CalRhys
                                            1 April 2019
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                        Sleepin_Dragon
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## 25 The Godfather
                      Marshall-D-Teach 23 February 2020
## 26 The Godfather
                                            21 June 2008
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                                            5 March 2002
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                         planktonrules
                                           30 March 2013
## 29 The Godfather
                     TheLittleSongbird
                                            18 July 2010
## 30
     The Godfather
                                         14 October 2006
                           mattrochman
## 31 The Godfather
                                            20 June 2014
                                CalRhys
## 32 The Godfather andrewburgereviews
                                            1 April 2019
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     The Godfather
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                         planktonrules
                                           30 March 2013
## 39 The Godfather
                     TheLittleSongbird
                                            18 July 2010
## 40 The Godfather
                            mattrochman
                                         14 October 2006
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                                CalRhys
                                            20 June 2014
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                                            1 April 2019
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                        Sleepin Dragon
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                      TheLittleSongbird
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                                             20 June 2014
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                            b-a-h TNT-6
                                             5 March 2002
## 68 The Godfather
                                            30 March 2013
                          planktonrules
## 69 The Godfather
                      TheLittleSongbird
                                             18 July 2010
## 70 The Godfather
                            mattrochman
                                         14 October 2006
##
                                  Rating
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## 67 \n
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##
     'The Godfather' is the pinnacle of flawless films! The first time I viewed 'The Godfather' I was
## 2 It is now past 1 PM and I just finished watching Francis Ford Coppola's "The Godfather". I should
     A masterclass in film making, is The Godfather a contender for the best film of all time? I'd arg
## 4
                                                                                     This isn't just a b
## 5
## 6 Tell me a movie that is more famous than this. Tell me a movie that has had more parodies spinned
     The Godfather is one of the few films in which I personally did not find any significant weakness
## 8 Up until today, I haven't bothered to review "The Godfather". After all, everyone pretty much kno
## 9 There is very little that I can add to the reviews on here, that have explained what is so wonder
## 10 This is a masterpiece. A timeless masterpiece. Initially, I didn't like this film all that much -
## 11 'The Godfather' is the pinnacle of flawless films! The first time I viewed 'The Godfather' I was
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10/10\n

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10/10\n

19 There is very little that I can add to the reviews on here, that have explained what is so wonder ## 20 This is a masterpiece. A timeless masterpiece. Initially, I didn't like this film all that much - ## 21 'The Godfather' is the pinnacle of flawless films! The first time I viewed 'The Godfather' I was ## 22 It is now past 1 PM and I just finished watching Francis Ford Coppola's "The Godfather". I should

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##
                                                                                              Review_Ti
## 1
                                                                         The Pinnacle Of Flawless Films
## 2
                                                                     An offer so good, I couldn't refus
## 3
                                                                            One of the best of all time
## 4
                                                                     For Me, This Is The Definitive Fili
## 5
                                                                         The greatest movie of all time
                                            7
```

23 A masterclass in film making, is The Godfather a contender for the best film of all time? I'd arg

26 Tell me a movie that is more famous than this. Tell me a movie that has had more parodies spinned ## 27 The Godfather is one of the few films in which I personally did not find any significant weakness ## 28 Up until today, I haven't bothered to review "The Godfather". After all, everyone pretty much know ## 29 There is very little that I can add to the reviews on here, that have explained what is so wonder ## 30 This is a masterpiece. A timeless masterpiece. Initially, I didn't like this film all that much - ## 31 'The Godfather' is the pinnacle of flawless films! The first time I viewed 'The Godfather' I was ## 32 It is now past 1 PM and I just finished watching Francis Ford Coppola's "The Godfather". I should ## 33 A masterclass in film making, is The Godfather a contender for the best film of all time? I'd arg

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This isn't just a b

This isn't just a b

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```
## 6
                                                                                             An Iconic Fili
## 7
                                                                            Another kind of "family movie
## 8
       #2 on IMDb's Top 100, a multi-Oscar-winner and over 1500 reviews...what more can I say about the
## 9
                                               I'm finding it hard to describe how amazing this movie wa
## 10
                                                          Initially, I wasn't a fan... but then I realise
## 11
                                                                           The Pinnacle Of Flawless Films
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                                                                       An offer so good, I couldn't refus
## 13
                                                                              One of the best of all time
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                                               I'm finding it hard to describe how amazing this movie wa
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                                                                           The Pinnacle Of Flawless Films
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                                                                       For Me, This Is The Definitive Fili
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                                                                           The greatest movie of all time
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                                                                                             An Iconic Fili
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## 60
                                                         Initially, I wasn't a fan... but then I realise
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                                                                          The Pinnacle Of Flawless Films
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## 63
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                                                                                            An Iconic Fili
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                                               I'm finding it hard to describe how amazing this movie wa
## 70
                                                         Initially, I wasn't a fan... but then I realise
```

```
#exporting to csv
#write.csv(review_data[,c(2:7)], "IMDBmovies.csv")
```