

RWorksheet#5_group.Rmd

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```
library(polite)
library(kableExtra)
library(rmarkdown)
library(httr)
library(rvest)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
## The following object is masked from 'package:kableExtra':
##
##   group_rows
## The following objects are masked from 'package:stats':
##
##   filter, lag
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
library(stringr)
```

```
urls <- c('https://www.amazon.com/s?k=skin+care&crd=3FODLJK4URUE9&sprefix=skin%2Caps%2C510&ref=nb_sb_s
```

```
nameofproduct <- vector("list", length(urls))
price <- vector("list", length(urls))
description <- vector("list", length(urls))
Ratings <- vector("list", length(urls))
Reviews <- vector("list", length(urls))
```

```
df <- list()
```

```
for (i in seq_along(urls)) {
  session <- bow(urls[i], user_agent = "Educational")
  webpage <- scrape(session)
```

```
nameofproduct[[i]] <- webpage %>%
  html_nodes('.a-size-base-plus.a-color-base') %>%
  html_text() %>%
  head(30)
```

```
price[[i]] <- webpage %>%
  html_nodes('.a-price-whole') %>%
```

```

html_text() %>%
head(30)

description[[i]] <- webpage %>%
  html_nodes('.a-size-mini.a-spacing-none.a-color-base s-line-clamp-3') %>%
  html_text() %>%
  head(30)

Ratings[[i]] <- webpage %>%
  html_nodes('.a-icon.a-icon-star-small.a-star-small-4-5') %>%
  html_text() %>%
  head(30)

Reviews[[i]] <- webpage %>%
  html_nodes('.a-size-base-plus.a-color-base') %>%
  html_text() %>%
  head(30)
}

```

```

skincare <- data.frame(nameofproduct[[1]],
                        Price = price[[1]],
                        Ratings = Ratings[[1]],
                        stringsAsFactors = FALSE
                      )

head(skincare)

```

```

##
## 1
## 2 Snail Mucin 96% Power Face Serum 3.38 fl oz 100ml, Hydrat
## 3
## 4 Moisturizing Cream | Body and Face Moisturizer for Dry Skin | Body Cream with Hyaluronic Acid and C
## 5
## 6 SKIN PERFECTING 2% BHA Liquid Salicylic
## Price Ratings
## 1 19. 4.6 out of 5 stars
## 2 17. 4.7 out of 5 stars
## 3 35. 4.5 out of 5 stars
## 4 19. 4.5 out of 5 stars
## 5 9. 4.4 out of 5 stars
## 6 19. 4.3 out of 5 stars

```

```

perfume <- data.frame(nameofproduct[[2]],
                      Price = price[[2]],
                      Ratings = Ratings[[2]],
                      stringsAsFactors = FALSE
                    )

head(perfume)

```

```

##
## 1
## 2 Lattafa '
## 3 Lattafa Per
## 4 Billie Eilish Eau de Parfum Spray Perfume for Women, Notes of Sugared Petals, Vanilla & Warm Musk,
## 5 Lattafa L
## 6 Ariana Grande Cloud Eau de Parfum - Warm Gourmand Fragrance for Women - Women's L

```

```
##      Price      Ratings
## 1    21. 4.4 out of 5 stars
## 2    27. 4.5 out of 5 stars
## 3    52. 4.6 out of 5 stars
## 4    23. 4.4 out of 5 stars
## 5    70. 4.7 out of 5 stars
## 6    31. 4.6 out of 5 stars
```

```
bags <- data.frame(nameofproduct[[3]],
                    Price = price[[3]],
                    Ratings = Ratings[[3]],
                    stringsAsFactors = FALSE
                  )
head(bags)
```

```
##
## 1
## 2 Large Canvas Tote Bag for Women,Womens Laptop Work Book Bags Crossbody Purse Handbag Shoulder Travel Bag
## 3
## 4      Corduroy Tote Bag Cute Tote Bags for Women Shoulder Bag with Inner Pocket for Work Beach Travel Bag
## 5
## 6                                Shoulder Bags for Women, Cute Hobo Tote Handbag Mini Clutch Purse
##      Price      Ratings
## 1    21. 4.4 out of 5 stars
## 2     8. 4.5 out of 5 stars
## 3    16. 4.4 out of 5 stars
## 4    61. 4.7 out of 5 stars
## 5    34. 4.7 out of 5 stars
## 6    23. 4.7 out of 5 stars
```

```
shoes <- data.frame(nameofproduct[[4]],
                    Price = price[[4]],
                    Ratings = Ratings[[4]],
                    stringsAsFactors = FALSE
                  )
head(shoes)
```

```
##      nameofproduct..4.. Price      Ratings
## 1                adidas  49. 4.7 out of 5 stars
## 2      Men's Daily 3.0 Sneaker  64. 4.5 out of 5 stars
## 3 Amazon's Choice: Overall Pick  64. 4.6 out of 5 stars
## 4                Under Armour  46. 4.3 out of 5 stars
## 5      Men's Charged Assert 10  89. 4.6 out of 5 stars
## 6                New Balance  28. 4.4 out of 5 stars
```

```
pants <- data.frame(nameofproduct[[5]],
                    Price = price[[5]],
                    Ratings = Ratings[[5]],
                    stringsAsFactors = FALSE
                  )
head(pants)
```

```
##      nameofproduct..5..
## 1                                Amazon's Choice: Overall Pick
## 2                                Ultra Performance
## 3      3 Pack Fleece Active Tech Joggers for Men, Mens Sweatpants with Zipper Pockets
```

```
## 4 THE GYM PEOPLE
## 5 Thick High Waist Yoga Pants with Pockets, Tummy Control Workout Running Yoga Leggings for Women
## 6 Wrangler Authentics
## Price Ratings
## 1 35. 4.4 out of 5 stars
## 2 24. 4.5 out of 5 stars
## 3 25. 4.4 out of 5 stars
## 4 3. 4.5 out of 5 stars
## 5 12. 4.3 out of 5 stars
## 6 29. 4.6 out of 5 stars
```