# RWorksheet#5\_group.Rmd

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### 2024-11-01

```
library(rvest)
library(dplyr)
## 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(stringr)
library(polite)
library(kableExtra)
##
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##
       group_rows
library(knitr)
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
                        v readr
## v forcats 1.0.0
                                     2.1.5
## v ggplot2
              3.5.1
                         v tibble
                                     3.2.1
## v lubridate 1.9.3
                         v tidyr
                                     1.3.1
## v purrr
              1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter()
                             masks stats::filter()
## x kableExtra::group_rows() masks dplyr::group_rows()
## x readr::guess_encoding() masks rvest::guess_encoding()
## x dplyr::lag()
                              masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
link = "https://www.imdb.com/chart/toptv/"
page = read html(link)
session <- bow(link, user_agent = "Educational")</pre>
```

## <polite session> https://www.imdb.com/chart/toptv/

```
##
       User-agent: Educational
##
       robots.txt: 35 rules are defined for 3 bots
      Crawl delay: 5 sec
##
     The path is scrapable for this user-agent
##
nam <- page %>% html_nodes(".ipc-title__text") %>% html_text()
name <- nam[!grepl("Top 250 TV Shows|IMDb Charts|Recently viewed|More to explore", nam, ignore.case = T
name
## [1] "1. Breaking Bad"
   [2] "2. Planet Earth II"
  [3] "3. Planet Earth"
##
   [4] "4. Band of Brothers"
## [5] "5. Chernobyl"
## [6] "6. The Wire"
## [7] "7. Avatar: The Last Airbender"
## [8] "8. Blue Planet II"
## [9] "9. The Sopranos"
## [10] "10. Cosmos: A Spacetime Odyssey"
## [11] "11. Cosmos"
## [12] "12. Our Planet"
## [13] "13. Game of Thrones"
## [14] "14. Bluey"
## [15] "15. The World at War"
## [16] "16. Fullmetal Alchemist: Brotherhood"
## [17] "17. Rick and Morty"
## [18] "18. Life"
## [19] "19. The Last Dance"
## [20] "20. The Twilight Zone"
## [21] "21. The Vietnam War"
## [22] "22. Sherlock"
## [23] "23. Attack on Titan"
## [24] "24. Batman: The Animated Series"
## [25] "25. Arcane"
rank <- str_extract(name, "^\\d+\\.")</pre>
rank
## [1] "1." "2." "3." "4." "5." "6." "7." "8." "9." "10." "11." "12."
## [13] "13." "14." "15." "16." "17." "18." "19." "20." "21." "22." "23." "24."
## [25] "25."
title <- str replace(name, "^\\d+\\.", "")
title
                                            " Planet Earth II"
## [1] " Breaking Bad"
## [3] " Planet Earth"
                                             " Band of Brothers"
                                            " The Wire"
## [5] " Chernobyl"
## [7] " Avatar: The Last Airbender"
                                            " Blue Planet II"
## [9] " The Sopranos"
                                            " Cosmos: A Spacetime Odyssey"
## [11] " Cosmos"
                                            " Our Planet"
## [13] " Game of Thrones"
                                            " Bluey"
## [15] " The World at War"
                                            " Fullmetal Alchemist: Brotherhood"
## [17] " Rick and Morty"
                                            " Life"
## [19] " The Last Dance"
                                            " The Twilight Zone"
## [21] " The Vietnam War"
                                            " Sherlock"
## [23] " Attack on Titan"
                                            " Batman: The Animated Series"
```

```
## [25] " Arcane"
yea = page %>% html_nodes(".sc-5bc66c50-6.00dsw.cli-title-metadata-item") %>% html_text()
year \leftarrow str_extract_all(yea, "\b\d{4}(?:-\d{4})?\b") %>% unlist()
year
## NULL
rating = page %>% html_nodes(".ipc-rating-star--rating") %>% html_text()
rating
## [1] "9.5" "9.5" "9.4" "9.4" "9.3" "9.3" "9.3" "9.3" "9.2" "9.2" "9.2" "9.3" "9.2"
## [13] "9.2" "9.3" "9.2" "9.1" "9.1" "9.1" "9.0" "9.0" "9.1" "9.1" "9.1" "9.0"
## [25] "9.0"
episode <- page %% html_nodes(".sc-5bc66c50-6.00dsw.cli-title-metadata-item") %%%
episodes <- str_extract_all(episode, "\\b\\d+ eps\\b") %>% unlist()
episodes
## NULL
vote = page %>% html_nodes(".ipc-rating-star--voteCount") %>% html_text()
## [1] " (2.2M)" " (162K)" " (224K)" " (546K)" " (908K)" " (391K)" " (390K)"
## [8] " (49K)" " (499K)" " (132K)" " (46K)" " (54K)" " (2.4M)" " (34K)"
## [15] " (31K)" " (209K)" " (628K)" " (44K)" " (160K)" " (97K)" " (30K)"
## [22] " (1M)" " (562K)" " (122K)" " (307K)"
urls <- c("https://www.imdb.com/title/tt0903747/?ref =chttvtp i 1",</pre>
          "https://www.imdb.com/title/tt5491994/?ref =chttvtp i 2",
          "https://www.imdb.com/title/tt0795176/?ref_=chttvtp_i_3",
          "https://www.imdb.com/title/tt0185906/?ref_=chttvtp_i_4",
          "https://www.imdb.com/title/tt7366338/?ref_=chttvtp_i_5",
          "https://www.imdb.com/title/tt0306414/?ref =chttvtp i 6",
          "https://www.imdb.com/title/tt0417299/?ref =chttvtp i 7",
          "https://www.imdb.com/title/tt6769208/?ref_=chttvtp_i_8",
          "https://www.imdb.com/title/tt0141842/?ref_=chttvtp_i_9",
          "https://www.imdb.com/title/tt2395695/?ref_=chttvtp_i_10",
          "https://www.imdb.com/title/tt0081846/?ref_=chttvtp_i_11",
          "https://www.imdb.com/title/tt9253866/?ref_=chttvtp_i_12",
          "https://www.imdb.com/title/tt0944947/?ref_=chttvtp_i_13",
          "https://www.imdb.com/title/tt7678620/?ref_=chttvtp_i_14",
          "https://www.imdb.com/title/tt0071075/?ref_=chttvtp_i_15",
          "https://www.imdb.com/title/tt1355642/?ref_=chttvtp_i_16",
          "https://www.imdb.com/title/tt2861424/?ref_=chttvtp_i_17",
          "https://www.imdb.com/title/tt1533395/?ref =chttvtp i 18",
          "https://www.imdb.com/title/tt8420184/?ref =chttvtp i 19",
          "https://www.imdb.com/title/tt0052520/?ref_=chttvtp_i_20",
          "https://www.imdb.com/title/tt1877514/?ref_=chttvtp_i_21",
          "https://www.imdb.com/title/tt1475582/?ref_=chttvtp_i_22",
          "https://www.imdb.com/title/tt2560140/?ref_=chttvtp_i_23",
          "https://www.imdb.com/title/tt0103359/?ref_=chttvtp_i_24",
          "https://www.imdb.com/title/tt0386676/?ref_=chttvtp_i_25")
user_reviews <- vector("numeric", length(urls))</pre>
```

```
critic_reviews <- vector("numeric", length(urls))</pre>
for (i in seq_along(urls)) {
  session <- bow(urls[i], user_agent = "Educational")</pre>
  webpage <- scrape(session)</pre>
 reviewz <- webpage %>% html nodes(".score") %>% html text()
  if (length(reviewz) >= 2) {
    user_reviews[i] <- ifelse(grepl("K", reviewz[1]),</pre>
                               as.numeric(gsub("K", "", reviewz[1])) * 1000,
                               as.numeric(reviewz[1]))
    critic_reviews[i] <- as.numeric(reviewz[2])</pre>
  } else {
    user_reviews[i] <- NA
    critic_reviews[i] <- NA</pre>
  }
}
user_reviews
## [1] 5000 158 111 1000 3500 787 1000
                                                  964
                                                       205
                                                                  245 5900
                                                                            368
## [16] 466 911
                    12 541 213 175 1000 2300
                                                  219 1700
critic_reviews
## [1] 175
              6 10 34
                         88
                             77
                                 57
                                       9 93 12
                                                   8 15 368
                                                                    5 16 94
## [20] 85 13 121 64
                         25
                             76
max_length <- max(length(rank), length(title), length(year), length(rating), length(episodes), length(v
rank <- c(rank, rep(NA, max_length - length(rank)))</pre>
title <- c(title, rep(NA, max_length - length(title)))
year <- c(year, rep(NA, max_length - length(year)))</pre>
rating <- c(rating, rep(NA, max_length - length(rating)))</pre>
episodes <- c(episodes, rep(NA, max_length - length(episodes)))
vote <- c(vote, rep(NA, max_length - length(vote)))</pre>
user_reviews <- c(user_reviews, rep(NA, max_length - length(user_reviews)))
critic_reviews <- c(critic_reviews, rep(NA, max_length - length(critic_reviews)))</pre>
max_length
## [1] 25
movies = data.frame(rank, title, year, rating, episodes, vote, user_reviews, critic_reviews, stringsAsF
write.csv(movies, "movies.csv")
print(head(movies))
##
    rank
                      title year rating episodes
                                                     vote user_reviews
## 1
       1.
                              NA
                                     9.5
                                               NA (2.2M)
                                                                   5000
               Breaking Bad
## 2
       2.
            Planet Earth II
                                     9.5
                                               NA (162K)
                                                                    158
                                    9.4
## 3
       3.
               Planet Earth
                              NA
                                               NA (224K)
                                                                    111
## 4
       4.
           Band of Brothers
                              NA
                                     9.4
                                               NA (546K)
                                                                   1000
## 5
       5.
                  Chernobyl
                              NA
                                     9.3
                                               NA (908K)
                                                                   3500
## 6
       6.
                   The Wire
                              NA
                                     9.3
                                               NA (391K)
                                                                   787
##
     critic_reviews
```

rank	title	year	rating	episodes	vote	user_reviews	critic_reviews
1.	Breaking Bad	NA	9.5	NA	(2.2M)	5000	175
2.	Planet Earth II	NA	9.5	NA	(162K)	158	6
3.	Planet Earth	NA	9.4	NA	(224K)	111	10
4.	Band of Brothers	NA	9.4	NA	(546K)	1000	34
5.	Chernobyl	NA	9.3	NA	(908K)	3500	88
6.	The Wire	NA	9.3	NA	(391K)	787	77
7.	Avatar: The Last Airbender	NA	9.3	NA	(390K)	1000	57
8.	Blue Planet II	NA	9.3	NA	(49K)	53	9
9.	The Sopranos	NA	9.2	NA	(499K)	964	93
10.	Cosmos: A Spacetime Odyssey	NA	9.2	NA	(132K)	205	12
11.	Cosmos	NA	9.3	NA	(46K)	80	8
12.	Our Planet	NA	9.2	NA	(54K)	245	15
13.	Game of Thrones	NA	9.2	NA	(2.4M)	5900	368
14.	Bluey	NA	9.3	NA	(34K)	368	4
15.	The World at War	NA	9.2	NA	(31K)	126	5
16.	Fullmetal Alchemist: Brotherhood	NA	9.1	NA	(209K)	466	16
17.	Rick and Morty	NA	9.1	NA	(628K)	911	94
18.	Life	NA	9.1	NA	(44K)	12	9
19.	The Last Dance	NA	9.0	NA	(160K)	541	28
20.	The Twilight Zone	NA	9.0	NA	(97K)	213	85
21.	The Vietnam War	NA	9.1	NA	(30K)	175	13
22.	Sherlock	NA	9.1	NA	(1M)	1000	121
23.	Attack on Titan	NA	9.1	NA	(562K)	2300	64
24.	Batman: The Animated Series	NA	9.0	NA	(122K)	219	25
25.	Arcane	NA	9.0	NA	(307K)	1700	76

```
## 1
                175
## 2
                  6
## 3
                 10
## 4
                 34
## 5
                 88
## 6
                 77
movies %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
link2 = "https://www.imdb.com/title/tt0903747/reviews/?ref_=tt_ov_ql_2"
page2 = read_html(link)
session2 <- bow(link, user_agent = "Educational")</pre>
        session2
## <polite session> https://www.imdb.com/chart/toptv/
##
       User-agent: Educational
##
       robots.txt: 35 rules are defined for 3 bots
##
      Crawl delay: 5 sec
     The path is scrapable for this user-agent
reviews <- page2 %>% html_nodes(".ipc-link--base") %>%
  html_text()
reviews
```

## [1] "Learn more about how list ranking is determined."

```
date <- page2 %>% html_nodes(".ipc-inline-list__item.review-date") %>%
 html_text()
date
## character(0)
user_rating <- page2 %>% html_nodes(".sc-a2ac93e5-4.gyib0i") %>%
 html text()
user_rating
## character(0)
link1 = "https://www.imdb.com/chart/toptv/"
page1 = read_html(link)
session1 <- bow(link1, user_agent = "Educational")</pre>
       session1
## <polite session> https://www.imdb.com/chart/toptv/
##
       User-agent: Educational
##
       robots.txt: 35 rules are defined for 3 bots
##
      Crawl delay: 5 sec
     The path is scrapable for this user-agent
user_review = page %>% html_nodes(".score") %>% html_text()
user_review
## character(0)
library(ggplot2)
movies$year <- as.numeric(movies$year)</pre>
year_counts <- movies %>%
 filter(!is.na(year)) %>%
  count(year)
ggplot(year_counts, aes(x = year, y = n)) +
 geom_line(color = "blue") +
  geom point(color = "red") +
  labs(title = "Number of TV Shows Released by Year",
       x = "Year",
       y = "Number of TV Shows") +
  theme_minimal()
```

#### Year

```
most_releases <- year_counts[which.max(year_counts$n), ]</pre>
print(most_releases)
## [1] year n
## <0 rows> (or 0-length row.names)
  4. Select 5 categories from Amazon and select 30 products from each category.
library(polite)
library(kableExtra)
library(rmarkdown)
library(httr)
library(rvest)
library(dplyr)
library(stringr)
library(ggplot2)
urls <- c('https://www.amazon.com/s?k=skin+care&crid=3FODLJK4URUE9&sprefix=skin%2Caps%2C510&ref=nb_sb_s
nameofproduct <- vector("list", length(urls))</pre>
price <- vector("list", length(urls))</pre>
description <- vector("list", length(urls))</pre>
Ratings <- vector("list", length(urls))</pre>
Reviews <- vector("list", length(urls))</pre>
df <- list()</pre>
for (i in seq_along(urls)) {
    session <- bow(urls[i], user_agent = "Educational")</pre>
```

```
webpage <- scrape(session)</pre>
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)
}
```

5. Extract the price, description, ratings and reviews of each product.

## 17

```
##
## 1
## 2
                                                                 Snail Mucin 96% Power Face Serum 3.38 fl
## 3
## 4
## 5
                                                                                   SKIN PERFECTING 2% BHA
## 6
## 7
                                                                       SKIN Hydrated Ever After Skincare
## 8
## 9
                      Moisturizing Cream | Body and Face Moisturizer for Dry Skin | Body Cream with Hya
## 10
## 11
                                                                                               Bio-Collag
## 12
## 13
                                                           Toleriane Double Repair Face Moisturizer | Da
## 14
## 15
                                                                                                Facial Spr
## 16 Under Eye Patches, 40 Pairs Eye Mask for Dark Circles, Puffy Eyes, Undereye Bags, Wrinkles, Eye Mas
```

Pimple Patches for Face, Hydrocolloid Acne Patches, Cute Star Zit Covers,

```
## 18
## 19
## 20
## 21
                  Hydrating Facial Cleanser | Moisturizing Face Wash For Dry Skin | Hyaluronic Acid + C
## 22
## 23
                                                                             Squeeze Me Lip Balm, Moisturi
## 24
## 25
                                      Makeup Headbands, 1pcs Black Spa Headband Fluffy Bow Tie Headband
## 26
## 27
## 28
## 29
                                             Toleriane Purifying Foaming Facial Cleanser, Oil Free Face
## 30
##
                        Ratings
## 1
        19. 4.6 out of 5 stars
## 2
        35. 4.5 out of 5 stars
## 3
        19. 4.5 out of 5 stars
## 4
        17. 4.7 out of 5 stars
## 5
        19. 4.3 out of 5 stars
## 6
        23. 4.6 out of 5 stars
         5. 4.5 out of 5 stars
## 7
## 8
         8. 4.5 out of 5 stars
## 9
         9. 4.4 out of 5 stars
## 10
        21. 4.6 out of 5 stars
## 11
        15. 4.7 out of 5 stars
## 12
         4. 4.5 out of 5 stars
## 13
         5. 4.5 out of 5 stars
## 14
         8. 4.7 out of 5 stars
## 15
        17. 4.7 out of 5 stars
## 16
         8. 4.7 out of 5 stars
## 17
        17. 4.3 out of 5 stars
## 18
         5. 4.7 out of 5 stars
## 19
         5. 4.6 out of 5 stars
## 20
        17. 4.7 out of 5 stars
## 21
        15. 4.5 out of 5 stars
## 22
         4. 4.5 out of 5 stars
## 23
        18. 4.5 out of 5 stars
## 24
        18. 4.5 out of 5 stars
## 25
         8. 4.3 out of 5 stars
## 26
        14. 4.3 out of 5 stars
## 27
        13. 4.6 out of 5 stars
## 28
        22. 4.7 out of 5 stars
         9. 4.6 out of 5 stars
## 29
## 30
        13. 4.6 out of 5 stars
skincare %>%
    kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
perfume <- data.frame(nameofproduct[[2]],</pre>
                       Price = price[[2]],
                       Ratings = Ratings[[2]],
                       stringsAsFactors = FALSE
head(perfume, 30)
```

nameofproduct1	Price	Ratings
COSRX Snail Mucin 96% Power Face Serum 3.38 fl oz 100ml, Hydrating Serum for Face, Self Care, Glow Skin under Makeup, Korean Skin Care, Korean Beauty Amazon's Choice: Overall Pick Paula's Choice SKIN PERFECTING 2% BHA Liquid Salicylic Acid Exfoliant-Facial Exfoliant for Blackheads, Enlarged Pores, Wrinkles & Fine Lines	19. 35. 19. 17.	4.6 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.7 out of 5 stars 4.3 out of 5 stars
e.l.f. SKIN Hydrated Ever After Skincare Mini Kit, Cleanser, Makeup Remover, Moisturiser & Eye Cream For Hydrating Skin, Airplane-Friendly Sizes CeraVe Moisturizing Cream   Body and Face Moisturizer for Dry Skin   Body Cream with Hyaluronic Acid and Ceramides   Daily Moisturizer   Oil-Free   Fragrance Free   Non-Comedogenic   19 Ounce BIODANCE	23. 5. 8. 9. 21.	4.6 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.4 out of 5 stars 4.6 out of 5 stars
Bio-Collagen Real Deep Mask, Hydrating Overnight Hydrogel Mask, Pore Minimizing, Elasticity Improvement, 34g x4ea La Roche-Possy Toleriane Double Repair Face Moisturizer   Daily Moisturizer Face Cream with Ceramide and Niacinamide for All Skin Types   Oil Free   Fragrance Free Mario Badescu Facial Spray with Aloe, Herbs and Rose Water for All Skin Types, Face Mist that Hydrates, Rejuvenates & Clarifies	15. 4. 5. 8. 17.	4.7 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.7 out of 5 stars 4.7 out of 5 stars
Under Eye Patches, 40 Pairs Eye Mask for Dark Circles, Puffy Eyes, Undereye Bags, Wrinkles, Eye Mask Patches with 24K Gold, Hyaluronic Acid, Rose & Aloe Vera, Eye Treatment Skin Care for Men & Women Gift Plumple Patches for Face, Hydrocolloid Acne Patches, Cute Star Zit Covers, Colorful Spot Stickers with Tea Tree, Salicylic Acid & Cica Oil 3 Sizes (10mm, 12mm & 14mm) [200 Count LANEIGE Lip Sleeping Mask: Nourish, Hydrate, Vitamin C, Murumuru & Shea Butter, Antioxidants, Flaky, Dry Lips CeraVe	8. 17. 5. 5. 17.	4.7 out of 5 stars 4.3 out of 5 stars 4.7 out of 5 stars 4.6 out of 5 stars 4.7 out of 5 stars
Hydrating Facial Cleanser   Moisturizing Face Wash For Dry Skin   Hyaluronic Acid + Ceramides + Glycerin   Hydrating Cleanser For Normal To Dry Skin   National Eczema Association Certified ed. f. Squeeze Me Lip Balm, Moisturizing Lip Balm For A Sheer Tint Of Color, Infused With Hyaluronic Acid, Vegan & Cruelty-free, Strawberry WSYUB Makeup Headbands, 1pcs Black Spa Headband Fluffy Bow Tie Headband Microfiber Face Headband, and 2Pcs Wrist Spa Wash Band Absorbent Wristbands, for Washing Face Skin Care	15. 4. 18. 18. 8.	4.5 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.3 out of 5 stars
Tree Hut Vitamin C Shea Sugar Scrub, 18 oz, Ultra Hydrating and Exfoliating Scrub for Nourishing Essential Body Care La Roche-Posay Toleriane Purifying Foaming Facial Cleanser, Oil Free Face Wash for Oily Skin and for Sensitive Skin with Niacinamide, Pore Cleanser Won't Dry Out Skin, Unscented cos	14. 13. 22. 9. 13.	4.3 out of 5 stars 4.6 out of 5 stars 4.7 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars

```
##
## 1
## 2
## 3
      Swiss Arabian Layali Rouge - Luxury Arabian Perfume Oil from Dubai - Long Lasting Arabian Perfume
## 5
                                                                                              Vera Wang P
## 6
                                    Vera Wang Eau de Parfum for Women - Delicate, Floral Scent - Notes
## 7
                                                                                               Versace Br
## 8
                                                                                     Ed Hardy Women's Per
## 9
                                                                                                Victoria'
## 10
## 11
            Billie Eilish Eau de Parfum Spray Perfume for Women, Notes of Sugared Petals, Vanilla & Warn
## 12
## 13
## 14
                                                                                  Perfume High End Design
## 15
                                            Victoria's Secret Bombshell Seduction Eau de Parfum, Notes o
## 16
                                                                                                   Versac
                                                                                 KHADLAJ PERFUMES Hareem
## 17
## 18
## 19
                                                             Lucky You Perfume for Women, Eau De Toilett
## 20
                              Ariana Grande Cloud Eau de Parfum - Warm Gourmand Fragrance for Women -
Women's Perfume with Notes of Lavender, Coconut, Vanilla & Pear
## 22
## 23
                                                                                              Al-Rehab Ch
## 24
## 25
## 26
## 27 Nautica Voyage Eau De Toilette for Men - Fresh, Romantic, Fruity Scent Woody, Aquatic Notes of Ap
## 28
         Victoria's Secret Bombshell Mini Fragrance Mist, Notes of Purple Passion Fruit, Shangri-La Peo
## 29
                                                                                                     Latt
## 30
##
      Price
                       Ratings
```

## 1

## 2

## 3

22. 4.4 out of 5 stars

9. 4.5 out of 5 stars

22. 4.4 out of 5 stars

```
nameofproduct..2..
                                                                                                                                                                                               Price
                                                                                                                                                                                                        Ratings
 Amazon's Choice: Overall Pick
                                                                                                                                                                                               22.
                                                                                                                                                                                                        4.4 out of 5 stars
Lattafa Yara for Women Eau de Parfum Spray, 3.40 Ounce / 100 ml
Al-Rehab Choco Musk Eau de Parfum Spray for Women, 1.7 Ounce
                                                                                                                                                                                                         4.5 out of 5 stars
                                                                                                                                                                                               22.
                                                                                                                                                                                                        4.4 out of 5 stars
 Swiss Arabian Layali Rouge - Luxury Arabian Perfume Oil from Dubai - Long Lasting Arabian Perfume for Women - Exotic, Fruity, Floral, Alcohol Free EDP - 0.5 oz Vera Wang Princess Eau de Toilette Spray for Women, Vanilla, 3.4 Fl Ounce
                                                                                                                                                                                               27
                                                                                                                                                                                                        4.6 out of 5 stars
                                                                                                                                                                                                        4.7 out of 5 stars
Vera Wang Eau de Parfum for Women - Delicate, Floral Scent - Notes of Iris, Lillies, & Sandalwood - Feminine & Subtle - 3.4 Fl Oz
                                                                                                                                                                                                        4.6 out of 5 stars
                                                                                                                                                                                               73.
Versace Bright Crystal by Versace for Women 6.7 oz Eau de Toilette Spray
Ed Hardy Women's Perfume Fragrance by Christian Audigier, Eau De Parfum, 3.4 Fl Oz
                                                                                                                                                                                               16.
                                                                                                                                                                                                        4.6 out of 5 stars
Victoria's Secret Bare Vanilla Body Mist, Body Spray for Women (8.4 oz)
Marc Jacobs Perfect Women 3.3 oz EDP Spray
                                                                                                                                                                                                        4.6 out of 5 stars
                                                                                                                                                                                               52.
                                                                                                                                                                                                        4.7 out of 5 stars
Billie Eilish Eau de Parfum Spray Perfume for Women, Notes of Sugared Petals, Vanilla & Warm Musk, Amber Gourmand Fragrance, Long Lasting, Everyday Scent
                                                                                                                                                                                               20.
                                                                                                                                                                                                        4.4 out of 5 stars
 Lattafa Yara Moi Eau de Parfum Spray for Women, 3.4 Ounce
Hollister Wave Women Eau De Parfum, 3.4 Ounce
                                                                                                                                                                                               19.
                                                                                                                                                                                                        4.7 out of 5 stars
Perfume High End Designer Fragrance Sampler Set for Women - (Pack of 12 Sample Vials)
Victoria's Secret Bombshell Seduction Eau de Parfum, Notes of White Peony, Sage & Velvet Musk, Perfumes for Women (1.7 oz)
                                                                                                                                                                                               32.
                                                                                                                                                                                                        4.5 out of 5 stars
Versace Miniature Variety Trio Collection Perfume Gift Set for Women
                                                                                                                                                                                               17.
                                                                                                                                                                                                        4.6 out of 5 stars
KHADLAJ PERFUMES Hareem Al Sultan Gold Concentrated Perfume Oil for Unisex, 1.18 Ounce
Marc Jacobs Daisy Eau So Fresh Eau de Toilette Spray-125ml/4.25 oz.
                                                                                                                                                                                               18.
                                                                                                                                                                                                        4.7 out of 5 stars
 Lucky You Perfume for Women, Eau De Toilette Day or Night Spray with Fresh Flower Citrus Scent, 3.4 fl oz
                                                                                                                                                                                                        4.6 out of 5 stars
Sol de Janeiro Hair & Body Fragrance Mist Travel Size 90mL/3.0 fl oz.
                                                                                                                                                                                               48.
                                                                                                                                                                                                        4.3 out of 5 stars
 Ariana Grande Cloud Eau de Parfum – Warm Gourmand Fragrance for Women – Women's Perfume with Notes of Lavender, Coconut, Vanilla & Pear
                                                                                                                                                                                               52.
                                                                                                                                                                                                        4.6 out of 5 stars
 Versace Bright Crystal Absolu Eau de Perfume Spray, 3.0 Ounce
                                                                                                                                                                                                         4.5 out of 5 stars
 Al-Rehab Choco Musk Concentrated Perfume Rollerball for Unisex, 0.2 Ounce
                                                                                                                                                                                               17.
                                                                                                                                                                                                        4.5 out of 5 stars
 JAFRA Tender Moments Fresh Baby Cologne
                                                                                                                                                                                                         4.6 out of 5 stars
Gucci Bloom for Women Eau de Parfum Spray, 3.3 Ounce, Multi
                                                                                                                                                                                               19.
                                                                                                                                                                                                        4.7 out of 5 stars
 Lattafa Rave Now Eau de Parfum Spray for Women, 3.4 Ounce
                                                                                                                                                                                                        4.7 out of 5 stars
 Nautica Voyage Eau De Toilette for Men - Fresh, Romantic, Fruity Scent Woody, Aquatic Notes of Apple, Water Lotus, Cedarwood, and Musk Ideal Day Wear 3.3 Fl Oz
                                                                                                                                                                                                        4.5 out of 5 stars
Victoria's Secret Bombshell Mini Fragrance Mist, Notes of Purple Passion Fruit, Shangri-La Peony & Vanilla Orchid, Travel Size Body Spray for Women (2.5 oz) Lattafa Perfumes Khamrah for Unisex Eau de Parfum Spray, 3.4 Ounce
                                                                                                                                                                                                        4.4 out of 5 stars
                                                                                                                                                                                                        4.6 out of 5 stars
Perfume: The Story of a Murderer
                                                                                                                                                                                                        4.6 out of 5 stars
```

```
## 4
        27. 4.6 out of 5 stars
        27. 4.7 out of 5 stars
## 5
## 6
        73. 4.6 out of 5 stars
## 7
        18. 4.6 out of 5 stars
## 8
        16. 4.6 out of 5 stars
## 9
        72. 4.6 out of 5 stars
## 10
        52. 4.7 out of 5 stars
##
        20. 4.4 out of 5 stars
  11
##
  12
        18. 4.3 out of 5 stars
##
  13
        19. 4.7 out of 5 stars
## 14
        42. 4.5 out of 5 stars
## 15
        32. 4.5 out of 5 stars
##
        17. 4.6 out of 5 stars
   16
##
  17
        69. 4.6 out of 5 stars
##
  18
        18. 4.7 out of 5 stars
##
        25. 4.6 out of 5 stars
  19
        48. 4.3 out of 5 stars
## 20
## 21
        52. 4.6 out of 5 stars
## 22
         6. 4.5 out of 5 stars
## 23
        17. 4.5 out of 5 stars
##
  24
        82. 4.6 out of 5 stars
##
  25
        19. 4.7 out of 5 stars
##
  26
        18. 4.7 out of 5 stars
## 27
        13. 4.5 out of 5 stars
##
  28
        28. 4.4 out of 5 stars
## 29
         3. 4.6 out of 5 stars
## 30
        47. 4.6 out of 5 stars
perfume %>%
    kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
bags <- data.frame(nameofproduct[[3]],</pre>
                        Price = price[[3]],
                        Ratings = Ratings[[3]],
```

```
stringsAsFactors = FALSE
head(bags, 30)
##
## 1
## 2
## 3
## 4
## 5
## 6
## 7
      Travel Backpack for Women, Carry On Backpack with USB Charging Port & Shoe Pouch, TSA 15.6inch La
## 8
## 9
                                                                                      Tote Bag for Women,
## 10
## 11
## 12
## 13
                                                                             Large Canvas Tote Bag for Wom
## 14
## 15
                                                                                 Corduroy Tote Bag Cute To
## 16
## 17
## 18
## 19
## 20
## 21
## 22
## 23
                                                                                       Color-Block Crossbo
## 24
## 25
                                                                                  Small Sling Backpack Cro
## 26
## 27
## 28
## 29
## 30
##
      Price
                        Ratings
## 1
        29. 4.4 out of 5 stars
## 2
        32. 4.7 out of 5 stars
## 3
        58. 4.6 out of 5 stars
        16. 4.7 out of 5 stars
## 4
## 5
        17. 4.4 out of 5 stars
## 6
        34. 4.5 out of 5 stars
## 7
        61. 4.7 out of 5 stars
        21. 4.6 out of 5 stars
## 8
## 9
         8. 4.7 out of 5 stars
## 10
        62. 4.6 out of 5 stars
## 11
        24. 4.3 out of 5 stars
        64. 4.5 out of 5 stars
## 12
## 13
        29. 4.7 out of 5 stars
## 14
         8. 4.3 out of 5 stars
## 15
        39. 4.7 out of 5 stars
## 16
       148. 4.4 out of 5 stars
## 17
        35. 4.5 out of 5 stars
## 18
        29. 4.6 out of 5 stars
```

```
Ratings
nameofproduct..3.
                                                                                                                                                                                                                                                                                                                                               Price
                                                                                                                                                                                                                                                                                                                                                           4.4 out of 5 stars
4.7 out of 5 stars
4.6 out of 5 stars
4.7 out of 5 stars
4.4 out of 5 stars
Amazon's Choice: Overall Pick
Michael Kors
( Crossbody
                                                                                                                                                                                                                                                                                                                                               29.
32.
 CVHTWSDI
 Shoulder Bags for Women, Cute Hobo Tote Handbag Mini Clutch Purse with Zipper Closure
Taygeer Travel Backpack for Women, Carry On Backpack with USB Charging Port & Shoe Pouch, TSA 15.6inch Laptop Backpack Flight Approved, Nurse Bag Casual Daypack for Weekender Business Hiking, Pink
                                                                                                                                                                                                                                                                                                                                                            4.5 out of 5 stars
Brooman Tote Bag for Women, Lightweight Puffy Tote Bag with Compartments, Quilted Shoulder Bag Handbag for Travel, Work Michael Kors
                                                                                                                                                                                                                                                                                                                                                           4.3 out of 5 stars
4.5 out of 5 stars
4.7 out of 5 stars
4.3 out of 5 stars
4.7 out of 5 stars
 Crossbody, Brown
ZHMO
ZIANJO Large Canvas Tote Bag for Women, Womens Laptop Work Book Bags Crossbody Purse Handbag Shoulder Travel Messenger Gym Totes TOPASION
Corduroy Tote Bag Cute Tote Bags for Women Shoulder Bag with Inner Pocket for Work Beach Travel and Shopping Grocery
Michael Kors
                                                                                                                                                                                                                                                                                                                                                            4.4 out of 5 store
Michael Kors
Jet Set Travel Medium Logo Crossbody Bag
Kipling
Sabian Printed Crossbody Mini Bag
Michael Kors
Jet Set Travel Medium Logo Crossbody Bag
                                                                                                                                                                                                                                                                                                                                                            4.7 out of 5 stars
Jøt Set Iraven augmunn Logo Crossbood, Dag.
TOP BAND
TOP BAND
Color-Block Crossbody Bags for Women Leather Cross Body Purses Cute Designer Handbags Shoulder Bag Medium Size
Banelu
Small Sling Backpack Crossbody Sling Bag, Chest Bag Daypack Fanny Pack Cross Body Bag for Outdoors Hiking Traveling
                                                                                                                                                                                                                                                                                                                                                            4.6 out of 5 stars
4.5 out of 5 stars
4.6 out of 5 stars
4.6 out of 5 stars
                                                                                                                                                                                                                                                                                                                                                           4.4 out of 5 stars
4.6 out of 5 stars
4.6 out of 5 stars
4.7 out of 5 stars
4.6 out of 5 stars
4.6 out of 5 stars
 Auontana West
Purses and Handbags for Women Tote Purse and Wallet Set Shoulder Satchel Bag for Women 3PCS
Michael Kors
Michael Kors
Charlotte Large 3-in-1 Tote Crossbody Handbag Leather
LOVEVOOK
```

```
## 19
        24. 4.5 out of 5 stars
        12. 4.5 out of 5 stars
## 20
## 21
        18. 4.7 out of 5 stars
## 22
        24. 4.6 out of 5 stars
## 23
        29. 4.5 out of 5 stars
## 24
        19. 4.6 out of 5 stars
## 25
        69. 4.6 out of 5 stars
## 26
        19. 4.4 out of 5 stars
## 27
        99. 4.6 out of 5 stars
        29. 4.6 out of 5 stars
## 28
## 29
        65. 4.7 out of 5 stars
## 30
        29. 4.6 out of 5 stars
bags %>%
    kable("latex", booktabs = TRUE) %>%
 kable_styling(latex_options = "scale_down")
shoes <- data.frame(nameofproduct[[4]],
                       Price = price[[4]],
                       Ratings = Ratings[[4]],
                       stringsAsFactors = FALSE
head(shoes, 30)
```

```
##
                                                                             nameofproduct..4..
                                                                 Amazon's Choice: Overall Pick
## 1
## 2
                                                                                   Under Armour
## 3
                                                                       Men's Charged Assert 10
## 4
                                                                                    New Balance
                                                     Men's 608 V5 Casual Comfort Cross Trainer
## 5
## 6
                                                                                         adidas
## 7
                                                                       Men's Daily 3.0 Sneaker
## 8
                                                                                         adidas
## 9
                                                            Men's Lite Racer Adapt 7.0 Sneaker
## 10
                                                                                       Hey Dude
## 11 Men's Wally Stretch | Men's Loafers | Men's Slip On Shoes | Comfortable & Light-Weight
## 12
                                                                                    New Balance
## 13
                                                                      Women's 574 Core Sneaker
```

```
UGG
## 14
## 15
                                                      Women's Classic Ultra Mini Platform Boot
## 16
## 17
        Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes
## 18
                                                                                    Under Armour
## 19
                                                            Men's Charged Assert 9 Running Shoe
## 20
                                                                                           Crocs
## 21
                                                                      Unisex Adult Classic Clog
## 22
                                                                                          Levi's
## 23
                                                                         Men's Drive Lo Sneaker
## 24
                                                                                    Under Armour
## 25
                                                                  Men's Charged Surge 4 Sneaker
## 26
                                                                                          adidas
## 27
                                                                                  mens Daily 4.0
## 28
                                                                                        Skechers
## 29
                                                                         Men's Afterburn M. Fit
## 30
                                                                                        Skechers
##
      Price
                        Ratings
## 1
        56. 4.5 out of 5 stars
##
        64. 4.6 out of 5 stars
## 3
        48. 4.7 out of 5 stars
## 4
        47. 4.3 out of 5 stars
        44. 4.7 out of 5 stars
## 5
## 6
        89. 4.6 out of 5 stars
## 7
       159. 4.5 out of 5 stars
## 8
        40. 4.6 out of 5 stars
## 9
        55. 4.6 out of 5 stars
## 10
        38. 4.4 out of 5 stars
        27. 4.4 out of 5 stars
## 11
        48. 4.6 out of 5 stars
## 12
        61. 4.4 out of 5 stars
## 13
## 14
        45. 4.5 out of 5 stars
## 15
        51. 4.6 out of 5 stars
## 16
        63. 4.3 out of 5 stars
## 17
        41. 4.5 out of 5 stars
## 18
        69. 4.5 out of 5 stars
## 19
        57. 4.4 out of 5 stars
## 20
        39. 4.3 out of 5 stars
## 21
        15. 4.6 out of 5 stars
## 22
        69. 4.3 out of 5 stars
        32. 4.5 out of 5 stars
## 24
        55. 4.6 out of 5 stars
        50. 4.3 out of 5 stars
  25
## 26
        44. 4.6 out of 5 stars
## 27
        38. 4.4 out of 5 stars
## 28
        41. 4.5 out of 5 stars
        69. 4.3 out of 5 stars
## 29
## 30
        85. 4.5 out of 5 stars
shoes %>%
    kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
pants <- data.frame(nameofproduct[[5]],</pre>
                        Price = price[[5]],
```

nameofproduct4	Price	Ratings
Amazon's Choice: Overall Pick Under Armour Men's Charged Assert 10 New Balance Men's 608 V5 Casual Comfort Cross Trainer adidas	56. 64. 48. 47. 44.	4.5 out of 5 stars 4.6 out of 5 stars 4.7 out of 5 stars 4.3 out of 5 stars 4.7 out of 5 stars 4.6 out of 5 stars
Men's Daily 3.0 Sneaker	159.	4.5 out of 5 stars
adidas	40.	4.6 out of 5 stars
Men's Lite Racer Adapt 7.0 Sneaker	55.	4.6 out of 5 stars
Hey Dude	38.	4.4 out of 5 stars
Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight New Balance Women's 574 Core Sneaker UGG Women's Classic Ultra Mini Platform Boot	27. 48. 61. 45. 51.	4.4 out of 5 stars 4.6 out of 5 stars 4.4 out of 5 stars 4.5 out of 5 stars 4.6 out of 5 stars
Bruno Marc	63.	4.3 out of 5 stars
Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes	41.	4.5 out of 5 stars
Under Armour	69.	4.5 out of 5 stars
Men's Charged Assert 9 Running Shoe	57.	4.4 out of 5 stars
Crocs	39.	4.3 out of 5 stars
Unisex Adult Classic Clog	15.	4.6 out of 5 stars
Levi's	69.	4.3 out of 5 stars
Men's Drive Lo Sneaker	32.	4.5 out of 5 stars
Under Armour	55.	4.6 out of 5 stars
Men's Charged Surge 4 Sneaker	50.	4.3 out of 5 stars
adidas	44.	4.6 out of 5 stars
mens Daily 4.0	38.	4.4 out of 5 stars
Skechers	41.	4.5 out of 5 stars
Men's Afterburn M. Fit	69.	4.3 out of 5 stars
Skechers	85.	4.5 out of 5 stars

```
stringsAsFactors = FALSE
                       )
head(pants, 30)
##
                                                                                                        na
## 1
                                                                                             Amazon's Choi
## 2
## 3
                                                                                     Men's Relaxed Fit St
## 4
## 5
                                          3 Pack Fleece Active Tech Joggers for Men, Mens Sweatpants wit
## 6
## 7
                        Thick High Waist Yoga Pants with Pockets, Tummy Control Workout Running Yoga Le
## 8
## 9
                                     Men's Classic-Fit Wrinkle-Resistant Flat-Front Chino Pant (Availabl
## 10
## 11
                                              Men's Joggers, Lightweight Lounge Pants, Jersey Graphic Pa
## 12
## 13
                                                                             ComfortSoft EcoSmart Men's F
## 14
## 15
                      Eversoft Fleece Elastic Bottom Sweatpants with Pockets, Relaxed Fit, Moisture Wic
## 16
## 17 High Waisted Leggings for Women - No See Through Tummy Control Cycling Workout Yoga Pants with Po
## 18
                                      Flare Leggings, Crossover Yoga Pants with Tummy Control, High-Wais
## 19
## 20
## 21
                              Men's Pants, Lightweight Open-Hem Lounge Pants for Men, Jersey Pants (Reg
## 22
## 23
              Men's Sweatpants with Zipper Pockets Tapered Joggers for Men Athletic Pants for Workout,
## 24
## 25
                                                                                                   Men's W
## 26
                                                                                                       Wra
## 27
                                                                     Authentics Men's Regular Fit Comfort
## 28
## 29
                            3 Packs Leggings with Pockets for Women, Soft High Waisted Tummy Control Wo
## 30
##
      Price
                       Ratings
## 1
        25. 4.5 out of 5 stars
## 2
        36. 4.4 out of 5 stars
## 3
        24. 4.4 out of 5 stars
## 4
        19. 4.4 out of 5 stars
## 5
        17. 4.4 out of 5 stars
## 6
        11. 4.3 out of 5 stars
## 7
        12. 4.3 out of 5 stars
## 8
        11. 4.3 out of 5 stars
## 9
        19. 4.5 out of 5 stars
## 10
        17. 4.3 out of 5 stars
## 11
        29. 4.6 out of 5 stars
## 12
        30. 4.3 out of 5 stars
## 13
        30. 4.5 out of 5 stars
## 14
        28. 4.5 out of 5 stars
        13. 4.4 out of 5 stars
## 15
## 16
        25. 4.3 out of 5 stars
## 17
        28. 4.3 out of 5 stars
```

Ratings = Ratings[[5]],

nameofproduct5	Price	Ratings
Amazon's Choice: Overall Pick Wrangler Authentics Men's Relaxed Fit Stretch Cargo Pant Ultra Performance 3 Pack Fleece Active Tech Joggers for Men, Mens Sweatpants with Zipper Pockets	25. 36. 24. 19.	4.5 out of 5 stars 4.4 out of 5 stars 4.4 out of 5 stars 4.4 out of 5 stars 4.4 out of 5 stars
THE GYM PEOPLE Thick High Waist Yoga Pants with Pockets, Tummy Control Workout Running Yoga Leggings for Women Amazon Essentials Men's Classic-Fit Wrinkle-Resistant Flat-Front Chino Pant (Available in Big & Tall) Champion	11. 12. 11. 19. 17.	4.3 out of 5 stars 4.3 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars 4.3 out of 5 stars
Men's Joggers, Lightweight Lounge Pants, Jersey Graphic Pants for Men, 31" Hanes ComfortSoft EcoSmart Men's Fleece Sweatpants Fruit of the Loom Eversoft Fleece Elastic Bottom Sweatpants with Pockets, Relaxed Fit, Moisture Wicking, Breathable	29. 30. 30. 28. 13.	4.6 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.4 out of 5 stars
TNNZEET High Waisted Leggings for Women - No See Through Tummy Control Cycling Workout Yoga Pants with Pockets Reg & Plus Sunzel Flare Leggings, Crossover Yoga Pants with Tummy Control, High-Waisted and Wide Leg Champion	25. 28. 25. 27. 18.	4.3 out of 5 stars 4.3 out of 5 stars 4.6 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars
Men's Pants, Lightweight Open-Hem Lounge Pants for Men, Jersey Pants (Reg. or Big & Tall) G Gradual Men's Sweatpants with Zipper Pockets Tapered Joggers for Men Athletic Pants for Workout, Jogging, Running Under Armour Men's Woven Vital Pants	22. 12. 26. 34. 34.	4.3 out of 5 stars 4.4 out of 5 stars 4.3 out of 5 stars 4.3 out of 5 stars 4.6 out of 5 stars
Wrangler Authentics Authentics Men's Regular Fit Comfort Flex Waist Jean Syrinx 3 Packs Leggings with Pockets for Women, Soft High Waisted Tummy Control Workout Yoga Pants Rustler	16. 39. 19. 29. 49.	4.5 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars 4.3 out of 5 stars 4.4 out of 5 stars

```
## 18
        25. 4.6 out of 5 stars
## 19
        27. 4.3 out of 5 stars
##
  20
        18. 4.5 out of 5 stars
## 21
        22. 4.3 out of 5 stars
## 22
        12. 4.4 out of 5 stars
## 23
        26. 4.3 out of 5 stars
##
        34. 4.3 out of 5 stars
##
  25
        34. 4.6 out of 5 stars
  26
        16. 4.5 out of 5 stars
##
  27
        39. 4.3 out of 5 stars
        19. 4.5 out of 5 stars
  28
## 29
        29. 4.3 out of 5 stars
## 30
        49. 4.4 out of 5 stars
pants %>%
    kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

#### 6. Describe the data you have extracted.

The extracted dataset contains key details about products across five categories: Skincare, Perfume, Bags, Shoes, and Pants. Here's an overview:

Product Name: The titles of the 30 products per category, retrieved from the website.

Price: Numerical values indicating the price, cleaned and standardized for analysis.

Description: Short descriptions highlighting the features of each product.

Ratings: Average star ratings (1 to 5) given by customers, reflecting product quality or satisfaction.

Category: A label indicating which category the product belongs to.

Size: A total of 150 products, with 30 from each category.

The data reveals insights into product characteristics and consumer feedback, aiding in trend analysis and decision-making.

7. What will be your use case for the data you have extracted?

The extracted data can be applied in several practical contexts:

Market Analysis:

- -Identifying price trends and outliers in each category.
- -Analyzing consumer preferences based on product ratings and reviews.

Customer Insights:

-Recommending products with the best quality-price ratio. Highlighting top-rated or most affordable products in each category.

Retail Strategies: -Informing inventory stocking by analyzing trends in popular products.

-Pricing strategies for competitive positioning.

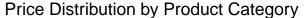
Visualization and Reporting:

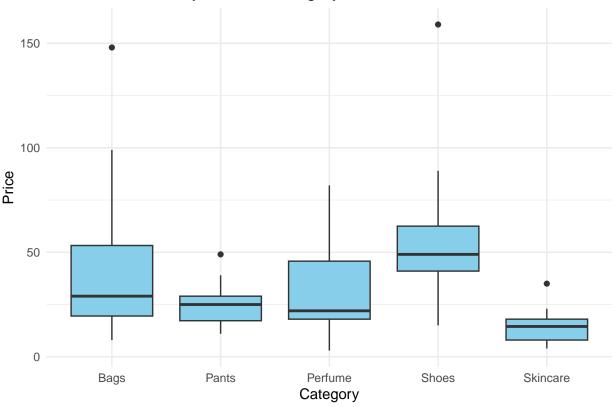
- -Using the data to create visual insights for presentations or reports.
  - 8. Create graphs regarding the use case. And briefly explain it.

```
category_names <- c("Skincare", "Perfume", "Bags", "Shoes", "Pants")
all_data <- bind_rows(
    skincare %>% mutate(Category = "Skincare"),
    perfume %>% mutate(Category = "Perfume"),
    bags %>% mutate(Category = "Bags"),
    shoes %>% mutate(Category = "Shoes"),
    pants %>% mutate(Category = "Pants")
)

all_data$Price <- as.numeric(gsub(",", "", all_data$Price))

ggplot(all_data, aes(x = Category, y = Price)) +
    geom_boxplot(fill = "skyblue") +
    labs(title = "Price Distribution by Product Category", x = "Category", y = "Price") +
    theme_minimal()</pre>
```





The boxplot visualizes the distribution of product prices across categories.

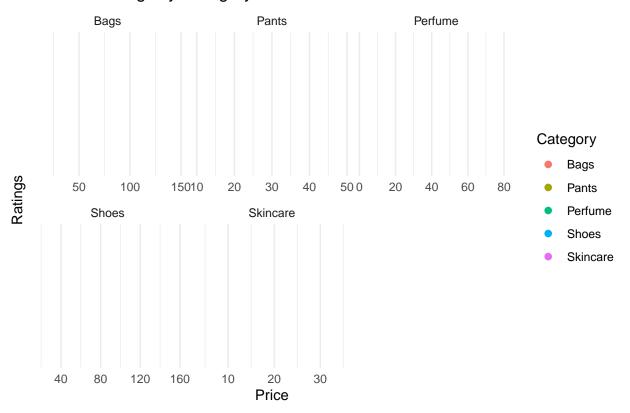
#### Insights:

- -The spread of prices varies significantly by category. -Categories like Bags and Shoes may have higher median prices and broader ranges compared to Skincare or Perfume.
  - 9. Graph the price and the ratings for each category. Use basic plotting functions and ggplot2 package.

```
ggplot(all_data, aes(x = Price, y = as.numeric(Ratings))) +
  geom_point(aes(color = Category), size = 2) +
  labs(title = "Price vs Ratings by Category", x = "Price", y = "Ratings") +
  theme_minimal() +
  facet_wrap(~ Category, scales = "free")
```

- ## Warning in FUN(X[[i]], ...): NAs introduced by coercion
- ## Warning: Removed 150 rows containing missing values or values outside the scale range
  ## (`geom\_point()`).

# Price vs Ratings by Category



The scatter plot illustrates the relationship between price and ratings for each category.

#### Explanation:

- -The relationship is plotted per category using facet $\_$ wrap.
- -The plot highlights clusters or trends, such as whether higher prices correlate with higher ratings.

Outliers or inconsistencies in pricing or ratings are easily spotted.

10. Rank the products of each category by price and ratings. Explain briefly.

```
skincare$Price <- as.numeric(gsub(",", "", skincare$Price))
perfume$Price <- as.numeric(gsub(",", "", perfume$Price))
bags$Price <- as.numeric(gsub(",", "", bags$Price))
shoes$Price <- as.numeric(gsub(",", "", shoes$Price))
pants$Price <- as.numeric(gsub(",", "", pants$Price))

skincare_ranked <- skincare %>% arrange(desc(Price), desc(Ratings))
perfume_ranked <- perfume %>% arrange(desc(Price), desc(Ratings))
bags_ranked <- bags %>% arrange(desc(Price), desc(Ratings))
shoes_ranked <- shoes %>% arrange(desc(Price), desc(Ratings))
pants_ranked <- pants %>% arrange(desc(Price), desc(Ratings))
head(skincare_ranked, 30)
```

```
## 1
## 2
## 3
## 4
```

##

Snail Mucin 96% Power Face Serum 3.38 fl

```
## 5
## 6
## 7
                                                                                   SKIN PERFECTING 2% BHA
## 8
                                                                            Squeeze Me Lip Balm, Moisturi
## 9
## 10
                                                                                                Facial Spr
## 11
## 12
## 13
                             Pimple Patches for Face, Hydrocolloid Acne Patches, Cute Star Zit Covers,
## 14
                                                                                                Bio-Collag
## 15
                  Hydrating Facial Cleanser | Moisturizing Face Wash For Dry Skin | Hyaluronic Acid + C
## 16
## 17
                                                                                                      Vita
## 18
## 19
                                             Toleriane Purifying Foaming Facial Cleanser, Oil Free Face
## 20
                      Moisturizing Cream | Body and Face Moisturizer for Dry Skin | Body Cream with Hya
## 21
     Under Eye Patches, 40 Pairs Eye Mask for Dark Circles, Puffy Eyes, Undereye Bags, Wrinkles, Eye Mas
## 23
## 24
                                      Makeup Headbands, 1pcs Black Spa Headband Fluffy Bow Tie Headband
## 25
## 26
## 27
                                                                       SKIN Hydrated Ever After Skincare
## 28
                                                            Toleriane Double Repair Face Moisturizer | Da
## 29
## 30
##
      Price
                       Ratings
## 1
         35 4.5 out of 5 stars
## 2
         23 4.6 out of 5 stars
## 3
         22 4.7 out of 5 stars
         21 4.6 out of 5 stars
## 4
## 5
         19 4.6 out of 5 stars
## 6
         19 4.5 out of 5 stars
## 7
         19 4.3 out of 5 stars
## 8
         18 4.5 out of 5 stars
## 9
         18 4.5 out of 5 stars
## 10
         17 4.7 out of 5 stars
## 11
         17 4.7 out of 5 stars
## 12
         17 4.7 out of 5 stars
## 13
         17 4.3 out of 5 stars
## 14
         15 4.7 out of 5 stars
## 15
         15 4.5 out of 5 stars
         14 4.3 out of 5 stars
## 16
## 17
         13 4.6 out of 5 stars
## 18
         13 4.6 out of 5 stars
## 19
          9 4.6 out of 5 stars
## 20
          9 4.4 out of 5 stars
## 21
          8 4.7 out of 5 stars
## 22
          8 4.7 out of 5 stars
## 23
          8 4.5 out of 5 stars
## 24
          8 4.3 out of 5 stars
## 25
          5 4.7 out of 5 stars
## 26
          5 4.6 out of 5 stars
## 27
          5 4.5 out of 5 stars
```

```
nameofproduct..1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Price Ratings
Snail Mucin 96% Power Face Serum 3.38 fl oz 100ml, Hydrating Serum for Face, Self Care, Glow Skin under Makeup, Korean Skin Care, Korean Beauty
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.5 out of 5 stars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.7 out of 5 stars
Amazon's Choice: Overall Pick
SKIN PERFECTING 2% BHA Liquid Salicylic Acid Exfoliant-Facial Exfoliant for Blackheads, Enlarged Pores, Wrinkles & Fine Lines
Squeeze Me Lip Balm, Moisturizing Lip Balm For A Sheer Tint Of Color, Infused With Hyaluronic Acid, Vegan & Cruelty-free, Strawberry
WSYUB
Paula's Choice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21 4.6 out of 5 stars
19 4.6 out of 5 stars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19 4.5 out of 5 stars
19 4.3 out of 5 stars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17 4.7 out of 5 stars
17 4.7 out of 5 stars
17 4.3 out of 5 stars
15 4.7 out of 5 stars
15 4.5 out of 5 stars
 Facial Spray with Aloe, Herbs and Rose Water for All Skin Types, Face Mist that Hydrates, Rejuvenates & Clarifies
Cera Ve Pimple Patches for Face, Hydrocolloid Acne Patches, Cute Star Zit Covers, Colorful Spot Stickers with Tea Tree, Salicylic Acid & Cica Oil| 3 Sizes (10mm, 12mm & 14mm) | 200 Count Bio-Collagen Real Deep Mask, Hydrating Overnight Hydroged Mask, Pore Minimizing, Elasticity Improvement, 34g x4ea and Collagen Real Cleaner | Mostivarizing Race Wash For Dry Skin | Hyaduronic Acid + Ceramides + Glycerin | Hyaduronic Facility | Acid + Ceramides - Glycerin | Hyaduronic Facility | Acid + Ceramides - Glycerin | Hyaduronic Facility | Acid + Ceramides - Glycerin | Hyaduronic Facility | Acid + Ceramides - Glycerin | Hyaduronic Facility |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14 4.3 out of 5 stars
 Vitamin C Shea Sugar Scrub, 18 oz, Ultra Hydrating and Exfoliating Scrub for Nourishing Essential Body Care
 Toleriane Purifying Foaming Facial Cleanser, Oil Free Face Wash for Oily Skin and for Sensitive Skin with Niacinamide, Pore Cleanser Won't Dry Out Skin, Unscented Moisturizing Gream | Body and Face Moisturizer for Dry Skin | Body Cream with Hyaluronic Acid and Ceramides | Daily Moisturizer | Oil-Free | Fragrance Free | Non-Comedogenic | 19 Ounce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9 4.4 out of 5 stars
 Mario Badescu
Under Eye Patches, 40 Pairs Eye Mask for Dark Circles, Puffy Eyes, Undereye Bags, Wrinkles, Eye Mask Patches with 24K Gold, Hyaluronic Acid, Rose & Aloe Vera, Eye Treatment Skin Care for Men & Women Gift
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4.7 out of 5 stars
4.5 out of 5 stars
4.3 out of 5 stars
4.7 out of 5 stars
CeraVe
Makeup Headbands, 1pcs Black Spa Headband Fluffy Bow Tie Headband Microfiber Face Headband, and 2Pcs Wrist Spa Wash Band Absorbent Wristbands, for Washing Face Skin Care
LANEIGE
Lip Sleeping Mask: Nourish, Hydrate, Vitamin C, Murumuru & Shea Butter, Antioxidants, Flaky, Dry Lips SKIN Hydrated Ever After Skincare Mini Kit, Cleanser, Makeup Remover, Moisturiser & Eye Cream For Hydrating Skin, Airplane-Friendly Sizes Toleriane Double Repair Face Moisturizer | Daily Moisturizer Face Cream with Ceramide and Niacinamide for All Skin Types | Oil Free | Fragrance Free La Roche-Posay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 4.6 out of 5 stars
5 4.5 out of 5 stars
5 4.5 out of 5 stars
4 4.5 out of 5 stars
```

```
## 28    5 4.5 out of 5 stars
## 29    4 4.5 out of 5 stars
## 30    4 4.5 out of 5 stars

skincare_ranked %>%
    kable("latex", booktabs = TRUE) %>%
    kable_styling(latex_options = "scale_down")

head(perfume_ranked, 30)
```

## ## 1 ## 2 Vera Wang Eau de Parfum for Women - Delicate, Floral Scent - Notes ## 3 Victoria' ## 4 KHADLAJ PERFUMES Hareem ## 5 ## 6 Ariana Grande Cloud Eau de Parfum - Warm Gourmand Fragrance for Women -Women's Perfume with Notes of Lavender, Coconut, Vanilla & Pear ## 7 Sol de ## 8 ## 9 Perfume High End Design ## 10 Victoria's Secret Bombshell Seduction Eau de Parfum, Notes o ## 11 Victoria's Secret Bombshell Mini Fragrance Mist, Notes of Purple Passion Fruit, Shangri-La Peo ## 12 Vera Wang P ## 13 Swiss Arabian Layali Rouge - Luxury Arabian Perfume Oil from Dubai - Long Lasting Arabian Perfume ## 14 Lucky You Perfume for Women, Eau De Toilett ## 15 ## 16 ## 17 Billie Eilish Eau de Parfum Spray Perfume for Women, Notes of Sugared Petals, Vanilla & Warn ## 18 ## 19

## 23
## 24

Versac
## 25

Al-Rehab Ch
## 26

Ed Hardy Women's Per

Marc

Versace Br

## 20

## 21 ## 22

```
## 27 Nautica Voyage Eau De Toilette for Men - Fresh, Romantic, Fruity Scent Woody, Aquatic Notes of Ap
## 28
## 29
## 30
                                                                                                      Latt
##
      Price
                       Ratings
## 1
         82 4.6 out of 5 stars
         73 4.6 out of 5 stars
         72 4.6 out of 5 stars
## 3
## 4
         69 4.6 out of 5 stars
## 5
         52 4.7 out of 5 stars
## 6
         52 4.6 out of 5 stars
## 7
         48 4.3 out of 5 stars
         47 4.6 out of 5 stars
## 8
## 9
         42 4.5 out of 5 stars
## 10
         32 4.5 out of 5 stars
## 11
         28 4.4 out of 5 stars
## 12
         27 4.7 out of 5 stars
## 13
         27 4.6 out of 5 stars
## 14
         25 4.6 out of 5 stars
## 15
         22 4.4 out of 5 stars
## 16
         22 4.4 out of 5 stars
## 17
         20 4.4 out of 5 stars
## 18
         19 4.7 out of 5 stars
## 19
         19 4.7 out of 5 stars
## 20
         18 4.7 out of 5 stars
## 21
         18 4.7 out of 5 stars
## 22
         18 4.6 out of 5 stars
## 23
         18 4.3 out of 5 stars
## 24
         17 4.6 out of 5 stars
## 25
         17 4.5 out of 5 stars
## 26
         16 4.6 out of 5 stars
## 27
         13 4.5 out of 5 stars
## 28
         9 4.5 out of 5 stars
## 29
          6 4.5 out of 5 stars
          3 4.6 out of 5 stars
perfume_ranked %>%
    kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
head(bags_ranked, 30)
##
## 1
## 2
## 3
                                                                                 Small Sling Backpack Cro
## 4
## 5
## 6
## 7
      Travel Backpack for Women, Carry On Backpack with USB Charging Port & Shoe Pouch, TSA 15.6inch La
## 8
## 9
                                                                                Corduroy Tote Bag Cute To
## 10
## 11
## 12
```

nameofproduct2	Price	Ratings
JAFRA Tender Moments Fresh Baby Cologne Vera Wang Eau de Parfum for Women - Delicate, Floral Scent - Notes of Iris, Lillies, & Sandalwood - Feminine & Subtle - 3.4 Fl Oz Victoria's Secret Bare Vanilla Body Mist, Body Spray for Women (8.4 oz) KHADLAJ PERFUMES Hareem Al Sultan Gold Concentrated Perfume Oil for Unisex, 1.18 Ounce Marc Jacobs Perfect Women 3.3 oz EDP Spray	82 73 72 69 52	4.6 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars 4.7 out of 5 stars
Ariana Grande Cloud Eau de Parfum – Warm Gourmand Fragrance for Women – Women's Perfume with Notes of Lavender, Coconut, Vanilla & Pear Sol de Janeiro Hair & Body Fragrance Mist Travel Size 90mL/3.0 fl oz.  Perfume: The Story of a Murderer  Perfume High End Designer Fragrance Sampler Set for Women - (Pack of 12 Sample Vials)  Victoria's Secret Bombshell Seduction Eau de Parfum, Notes of White Peony, Sage & Velvet Musk, Perfumes for Women (1.7 oz)	52 48 47 42 32	4.6 out of 5 stars 4.3 out of 5 stars 4.6 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars
Victoria's Secret Bombshell Mini Fragrance Mist, Notes of Purple Passion Fruit, Shangri-La Peony & Vanilla Orchid, Travel Size Body Spray for Women (2.5 oz) Vera Wang Princess Eau de Toilette Spray for Women, Vanilla, 3.4 Fl Ounce Swiss Arabian Layali Rouge - Luxury Arabian Perfume Oil from Dubai - Long Lasting Arabian Perfume for Women - Exotic, Fruity, Floral, Alcohol Free EDP - 0.5 oz Lucky You Perfume for Women, Eau De Toilette Day or Night Spray with Fresh Flower Citrus Scent, 3.4 fl oz Amazon's Choice: Overall Pick	28 27 27 25 22	4.4 out of 5 stars 4.7 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars 4.4 out of 5 stars
Al-Rehab Choco Musk Eau de Parfum Spray for Women, 1.7 Ounce Billie Eilish Eau de Parfum Spray Perfume for Women, Notes of Sugared Petals, Vanilla & Warm Musk, Amber Gourmand Fragrance, Long Lasting, Everyday Scent Hollister Wave Women Eau De Parfum, 3.4 Ounce Gueci Bloom for Women Eau de Parfum Spray, 3.3 Ounce, Multi Marc Jacobs Daisy Eau So Fresh Eau de Toilette Spray-125ml/4.25 oz.	22 20 19 19 18	4.4 out of 5 stars 4.4 out of 5 stars 4.7 out of 5 stars 4.7 out of 5 stars 4.7 out of 5 stars
Lattafa Rave Now Eau de Parfum Spray for Women, 3.4 Ounce Versace Bright Crystal by Versace for Women 6.7 oz Eau de Toilette Spray Lattafa Yara Moi Eau de Parfum Spray for Women, 3.4 Ounce Versace Miniature Variety Trio Collection Perfume Gift Set for Women Al-Rehab Choco Musk Concentrated Perfume Rollerball for Unisex, 0.2 Ounce	18 18 18 17 17	4.7 out of 5 stars 4.6 out of 5 stars 4.3 out of 5 stars 4.6 out of 5 stars 4.5 out of 5 stars
Ed Hardy Women's Perfume Fragrance by Christian Audigier, Eau De Parfum, 3.4 Fl Oz Nautica Voyage Eau De Toilette for Men - Fresh, Romantic, Fruity Scent Woody, Aquatic Notes of Apple, Water Lotus, Cedarwood, and Musk Ideal Day Wear 3.3 Fl Oz Lattafa Yara for Women Eau de Parfum Spray, 3.40 Ounce / 100 ml Versace Bright Crystal Absolu Eau de Perfume Spray, 3.0 Ounce Lattafa Perfumes Khamrah for Unisex Eau de Parfum Spray, 3.4 Ounce	16 13 9 6 3	4.6 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.6 out of 5 stars

```
## 13
                                                                            Large Canvas Tote Bag for Wom
## 14
## 15
## 16
## 17
                                                                                       Color-Block Crossbo
## 18
## 19
## 20
## 21
## 22
## 23
## 24
## 25
## 26
## 27
## 28
## 29
                                                                                      Tote Bag for Women,
## 30
      Price
                       Ratings
## 1
        148 4.4 out of 5 stars
## 2
         99 4.6 out of 5 stars
## 3
         69 4.6 out of 5 stars
         65 4.7 out of 5 stars
         64 4.5 out of 5 stars
## 5
## 6
         62 4.6 out of 5 stars
## 7
         61 4.7 out of 5 stars
## 8
         58 4.6 out of 5 stars
## 9
         39 4.7 out of 5 stars
## 10
         35 4.5 out of 5 stars
```

## 11

## 12

## 13

## 14

## 15

34 4.5 out of 5 stars

32 4.7 out of 5 stars

29 4.7 out of 5 stars

29 4.6 out of 5 stars

29 4.6 out of 5 stars

nameofproduct3	Price	Ratings
Michael Kors Purses and Handbags for Women Tote Purse and Wallet Set Shoulder Satchel Bag for Women 3PCS Small Sling Backpack Crossbody Sling Bag, Chest Bag Daypack Fanny Pack Cross Body Bag for Outdoors Hiking Traveling Charlotte Large 3-in-1 Tote Crossbody Handbag Leather ZHMO ZHMO	148 99 69 65 64	4.4 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars 4.7 out of 5 stars 4.5 out of 5 stars
Michael Kors Travel Backpack for Women, Carry On Backpack with USB Charging Port & Shoe Pouch, TSA 15.6inch Laptop Backpack Flight Approved, Nurse Bag Casual Daypack for Weekender Business Hiking, Pink ( Crossbody Cordury Tote Bag Cute Tote Bags for Women Shoulder Bag with Inner Pocket for Work Beach Travel and Shopping Grocery Jet Set Travel Medium Logo Crossbody Bag	62 61 58 39 35	4.6 out of 5 stars 4.7 out of 5 stars 4.6 out of 5 stars 4.7 out of 5 stars 4.5 out of 5 stars
Taygeer Michael Kors Large Canvas Tote Bag for Women, Womens Laptop Work Book Bags Crossbody Purse Handbag Shoulder Travel Messenger Gym Totes Kipling Michael Kors	34 32 29 29 29	4.5 out of 5 stars 4.7 out of 5 stars 4.7 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars
LOVEVOOK Color-Block Crossbody Bags for Women Leather Cross Body Purses Cute Designer Handbags Shoulder Bag Medium Size Amazon's Choice: Overall Pick TOP BAND Sabian Printed Crossbody Mini Bag	29 29 29 24 24	4.6 out of 5 stars 4.5 out of 5 stars 4.4 out of 5 stars 4.6 out of 5 stars 4.5 out of 5 stars
Crossbody, Brown BAGSMART Banelu Montana West Jet Set Travel Medium Logo Crossbody Bag	24 21 19 19 18	4.3 out of 5 stars 4.6 out of 5 stars 4.6 out of 5 stars 4.4 out of 5 stars 4.7 out of 5 stars
Shoulder Bags for Women, Cute Hobo Tote Handbag Mini Clutch Purse with Zipper Closure CYHTWSDJ Michael Kors Tote Bag for Women, Lightweight Puffy Tote Bag with Compartments, Quilted Shoulder Bag Handbag for Travel, Work TOPASION		

```
## 16
         29 4.6 out of 5 stars
## 17
         29 4.5 out of 5 stars
## 18
         29 4.4 out of 5 stars
## 19
         24 4.6 out of 5 stars
## 20
         24 4.5 out of 5 stars
## 21
         24 4.3 out of 5 stars
## 22
         21 4.6 out of 5 stars
## 23
         19 4.6 out of 5 stars
## 24
         19 4.4 out of 5 stars
## 25
         18 4.7 out of 5 stars
## 26
         17 4.4 out of 5 stars
         16 4.7 out of 5 stars
## 27
## 28
         12 4.5 out of 5 stars
## 29
          8 4.7 out of 5 stars
## 30
          8 4.3 out of 5 stars
```

```
bags_ranked %>%
  kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
```

#### head(shoes\_ranked, 30)

```
##
                                                                             nameofproduct..4..
## 1
                                                                        Men's Daily 3.0 Sneaker
## 2
                                                                                          adidas
## 3
                                                                                        Skechers
## 4
                                                                                    Under Armour
## 5
                                                                                          Levi's
## 6
                                                                         Men's Afterburn M. Fit
## 7
                                                                                   Under Armour
## 8
                                                                                     Bruno Marc
## 9
                                                                       Women's 574 Core Sneaker
## 10
                                                           Men's Charged Assert 9 Running Shoe
## 11
                                                                  Amazon's Choice: Overall Pick
## 12
                                                            Men's Lite Racer Adapt 7.0 Sneaker
## 13
                                                                                   Under Armour
## 14
                                                      Women's Classic Ultra Mini Platform Boot
## 15
                                                                  Men's Charged Surge 4 Sneaker
```

```
## 16
                                                                        Men's Charged Assert 10
## 17
                                                                                    New Balance
                                                                                    New Balance
## 18
                                                                                             UGG
## 19
## 20
                                                     Men's 608 V5 Casual Comfort Cross Trainer
## 21
## 22
        Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes
## 23
                                                                                       Skechers
## 24
                                                                                          adidas
## 25
                                                                                           Crocs
## 26
                                                                                       Hey Dude
## 27
                                                                                 mens Daily 4.0
## 28
                                                                         Men's Drive Lo Sneaker
## 29 Men's Wally Stretch | Men's Loafers | Men's Slip On Shoes | Comfortable & Light-Weight
## 30
                                                                      Unisex Adult Classic Clog
##
      Price
                        Ratings
## 1
        159 4.5 out of 5 stars
## 2
         89 4.6 out of 5 stars
## 3
         85 4.5 out of 5 stars
## 4
         69 4.5 out of 5 stars
         69 4.3 out of 5 stars
## 5
## 6
         69 4.3 out of 5 stars
## 7
         64 4.6 out of 5 stars
## 8
         63 4.3 out of 5 stars
## 9
         61 4.4 out of 5 stars
## 10
         57 4.4 out of 5 stars
## 11
         56 4.5 out of 5 stars
         55 4.6 out of 5 stars
## 12
## 13
         55 4.6 out of 5 stars
## 14
         51 4.6 out of 5 stars
## 15
         50 4.3 out of 5 stars
## 16
         48 4.7 out of 5 stars
## 17
         48 4.6 out of 5 stars
## 18
         47 4.3 out of 5 stars
## 19
         45 4.5 out of 5 stars
## 20
         44 4.7 out of 5 stars
## 21
         44 4.6 out of 5 stars
## 22
         41 4.5 out of 5 stars
## 23
         41 4.5 out of 5 stars
## 24
         40 4.6 out of 5 stars
## 25
         39 4.3 out of 5 stars
## 26
         38 4.4 out of 5 stars
         38 4.4 out of 5 stars
## 27
         32 4.5 out of 5 stars
## 28
## 29
         27 4.4 out of 5 stars
## 30
         15 4.6 out of 5 stars
shoes_ranked %>%
    kable("latex", booktabs = TRUE) %>%
  kable_styling(latex_options = "scale_down")
head(pants_ranked, 30)
```

26

na

##

## 1

Men's Daily 3.0 Sneaker         4.5 out of 5 stars           adidas         89 4.6 out of 5 stars           Skechers         4.5 out of 5 stars           Under Armour         69 4.5 out of 5 stars           Levi's         69 4.3 out of 5 stars           Levi's         69 4.3 out of 5 stars           Men's Afterburn M. Fit         69 4.3 out of 5 stars           Under Armour         64 4.6 out of 5 stars           Bruno Marc         63 4.3 out of 5 stars           Bruno Marc         61 4.4 out of 5 stars           Women's 574 Core Sneaker         61 4.4 out of 5 stars           Men's Charged Assert 9 Running Shoe         57 4.4 out of 5 stars           Men's Charged Assert 9 Running Shoe         56 4.5 out of 5 stars           Men's Charged Assert 9 Running Shoe         56 4.5 out of 5 stars           Men's Charged Assert 9 Running Shoe         57 4.6 out of 5 stars           Under Armour         55 4.6 out of 5 stars           Women's Classic Ultra Mini Platform Boot         51 4.6 out of 5 stars           Wen's Charged Assert 10         48 4.7 out of 5 stars           New Balance         48 4.6 out of 5 stars           New Balance         45 4.5 out of 5 stars           Wen's 608 V5 Casual Comfort Cross Trainer         44 4.6 out of 5 stars           Men's KnitFlex B	nameofproduct4	Price	Ratings
Skechers         85         4.5 out of 5 stars           Under Armour         69         4.5 out of 5 stars           Levi's         69         4.3 out of 5 stars           Men's Afterburn M. Fit         69         4.3 out of 5 stars           Under Armour         64         4.6 out of 5 stars           Bruno Marc         63         4.3 out of 5 stars           Women's Charged Assert 9 Running Shoe         61         4.4 out of 5 stars           Amazon's Choice: Overall Pick         56         4.5 out of 5 stars           Men's Charged Assert 9 Running Shoe         55         4.6 out of 5 stars           Men's Lite Racer Adapt 7.0 Sneaker         55         4.6 out of 5 stars           Under Armour         55         4.6 out of 5 stars           Women's Classic Ultra Mini Platform Boot         51         4.6 out of 5 stars           Men's Charged Surge 4 Sneaker         50         4.3 out of 5 stars           Men's Charged Assert 10         48         4.7 out of 5 stars           New Balance         47         4.3 out of 5 stars           New Balance         47         4.3 out of 5 stars           Men's 608 V5 Casual Comfort Cross Trainer         44         4.6 out of 5 stars           Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual	Men's Daily 3.0 Sneaker	159	4.5 out of 5 stars
Under Armour         69         4.5 out of 5 stars           Levi's         69         4.3 out of 5 stars           Men's Afterburn M. Fit         69         4.3 out of 5 stars           Under Armour         64         4.6 out of 5 stars           Bruno Marc         63         4.3 out of 5 stars           Women's 574 Core Sneaker         61         4.4 out of 5 stars           Women's Charged Assert 9 Running Shoe         57         4.4 out of 5 stars           Men's Charged Assert 9 Running Shoe         56         4.5 out of 5 stars           Men's Lite Racer Adapt 7.0 Sneaker         55         4.6 out of 5 stars           Under Armour         55         4.6 out of 5 stars           Women's Classic Ultra Mini Platform Boot         51         4.6 out of 5 stars           Men's Charged Surge 4 Sneaker         50         4.3 out of 5 stars           New Balance         48         4.7 out of 5 stars           New Balance         48         4.6 out of 5 stars           New Balance         47         4.3 out of 5 stars           Men's 608 V5 Casual Comfort Cross Trainer         44         4.7 out of 5 stars           Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes         41         4.5 out of 5 stars           Men's KnitF	adidas	89	4.6 out of $5$ stars
Levi's         69         4.3 out of 5 stars           Men's Afterburn M. Fit         69         4.3 out of 5 stars           Under Armour         64         4.6 out of 5 stars           Bruno Mare         63         4.3 out of 5 stars           Women's 574 Core Sneaker         61         4.4 out of 5 stars           Men's Charged Assert 9 Running Shoe         57         4.4 out of 5 stars           Amazon's Choice: Overall Pick         56         4.5 out of 5 stars           Men's Lite Racer Adapt 7.0 Sneaker         55         4.6 out of 5 stars           Under Armour         55         4.6 out of 5 stars           Women's Charged Surge 4 Sneaker         50         4.3 out of 5 stars           Men's Charged Assert 10         48         4.7 out of 5 stars           New Balance         48         4.7 out of 5 stars           New Balance         48         4.5 out of 5 stars           Men's 608 V5 Casual Comfort Cross Trainer         44         4.5 out of 5 stars           Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes         41         4.5 out of 5 stars           Skechers         41         4.5 out of 5 stars           Skechers         41         4.5 out of 5 stars           Skechers         41		85	4.5  out of  5  stars
Men's Afterburn M. Fit       69       4.3 out of 5 stars         Under Armour       64       4.6 out of 5 stars         Bruno Marc       63       4.3 out of 5 stars         Women's 574 Core Sneaker       61       4.4 out of 5 stars         Men's Charged Assert 9 Running Shoe       57       4.4 out of 5 stars         Amazon's Choice: Overall Pick       56       4.5 out of 5 stars         Men's Lite Racer Adapt 7.0 Sneaker       55       4.6 out of 5 stars         Under Armour       55       4.6 out of 5 stars         Women's Classic Ultra Mini Platform Boot       51       4.6 out of 5 stars         Men's Charged Surge 4 Sneaker       50       4.3 out of 5 stars         Men's Charged Assert 10       48       4.7 out of 5 stars         New Balance       48       4.7 out of 5 stars         New Balance       47       4.3 out of 5 stars         UGG       45       4.5 out of 5 stars         Men's 608 V5 Casual Comfort Cross Trainer       44       4.7 out of 5 stars         Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes       41       4.5 out of 5 stars         Skechers       41       4.5 out of 5 stars         Crocs       39       4.3 out of 5 stars         Hey Dude	Under Armour	69	4.5  out of  5  stars
Under Armour         64         4.6 out of 5 stars           Bruno Marc         63         4.3 out of 5 stars           Women's 574 Core Sneaker         61         4.4 out of 5 stars           Men's Charged Assert 9 Running Shoe         57         4.4 out of 5 stars           Amazon's Choice: Overall Pick         56         4.5 out of 5 stars           Men's Lite Racer Adapt 7.0 Sneaker         55         4.6 out of 5 stars           Under Armour         55         4.6 out of 5 stars           Women's Classic Ultra Mini Platform Boot         51         4.6 out of 5 stars           Men's Charged Assert 10         48         4.7 out of 5 stars           New Balance         48         4.6 out of 5 stars           New Balance         47         4.3 out of 5 stars           Men's 608 V5 Casual Comfort Cross Trainer         47         4.3 out of 5 stars           Men's 608 V5 Casual Comfort Cross Trainer         44         4.6 out of 5 stars           Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes         41         4.5 out of 5 stars           Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes         41         4.5 out of 5 stars           Wen's Dude         38         4.4 out of 5 stars           Hey Dude         38	Levi's	69	4.3 out of 5 stars
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Women's 574 Core Sneaker       61       4.4 out of 5 stars         Men's Charged Assert 9 Running Shoe       57       4.4 out of 5 stars         Amazon's Choice: Overall Pick       56       4.5 out of 5 stars         Men's Lite Racer Adapt 7.0 Sneaker       55       4.6 out of 5 stars         Under Armour       55       4.6 out of 5 stars         Women's Classic Ultra Mini Platform Boot       51       4.6 out of 5 stars         Men's Charged Surge 4 Sneaker       50       4.3 out of 5 stars         Men's Charged Assert 10       48       4.7 out of 5 stars         New Balance       48       4.6 out of 5 stars         New Balance       47       4.3 out of 5 stars         UGG       45       4.5 out of 5 stars         Men's 608 V5 Casual Comfort Cross Trainer       44       4.7 out of 5 stars         adidas       44       4.6 out of 5 stars         Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes       41       4.5 out of 5 stars         Skechers       41       4.5 out of 5 stars         Crocs       39       4.3 out of 5 stars         Hey Dude       38       4.4 out of 5 stars         Men's Drive Lo Sneaker       32       4.5 out of 5 stars         Men's Wally Stretch   Me	V	64	4.6 out of 5 stars
Men's Charged Assert 9 Running Shoe       57       4.4 out of 5 stars         Amazon's Choice: Overall Pick       56       4.5 out of 5 stars         Men's Lite Racer Adapt 7.0 Sneaker       55       4.6 out of 5 stars         Under Armour       55       4.6 out of 5 stars         Women's Classic Ultra Mini Platform Boot       51       4.6 out of 5 stars         Men's Charged Surge 4 Sneaker       50       4.3 out of 5 stars         Men's Charged Assert 10       48       4.7 out of 5 stars         New Balance       48       4.6 out of 5 stars         New Balance       47       4.3 out of 5 stars         Men's 608 V5 Casual Comfort Cross Trainer       44       4.7 out of 5 stars         adidas       44       4.6 out of 5 stars         Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes       41       4.5 out of 5 stars         Skechers       41       4.5 out of 5 stars         adidas       40       4.6 out of 5 stars         Crocs       39       4.3 out of 5 stars         Hey Dude       38       4.4 out of 5 stars         Men's Drive Lo Sneaker       32       4.5 out of 5 stars         Men's Drive Lo Sneaker       32       4.5 out of 5 stars         Men's Wally Stretch   M		63	
Amazon's Choice: Overall Pick       56       4.5 out of 5 stars         Men's Lite Racer Adapt 7.0 Sneaker       55       4.6 out of 5 stars         Under Armour       55       4.6 out of 5 stars         Women's Classic Ultra Mini Platform Boot       51       4.6 out of 5 stars         Men's Charged Surge 4 Sneaker       50       4.3 out of 5 stars         Men's Charged Assert 10       48       4.7 out of 5 stars         New Balance       48       4.6 out of 5 stars         New Balance       47       4.3 out of 5 stars         Wen's 608 V5 Casual Comfort Cross Trainer       44       4.7 out of 5 stars         adidas       44       4.6 out of 5 stars         Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes       41       4.5 out of 5 stars         Skechers       41       4.5 out of 5 stars         adidas       40       4.6 out of 5 stars         Crocs       39       4.3 out of 5 stars         Hey Dude       38       4.4 out of 5 stars         mens Daily 4.0       38       4.4 out of 5 stars         Men's Drive Lo Sneaker       32       4.5 out of 5 stars         Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight       27       4.4 out of 5 stars			
Men's Lite Racer Adapt 7.0 Sneaker       55       4.6 out of 5 stars         Under Armour       55       4.6 out of 5 stars         Women's Classic Ultra Mini Platform Boot       51       4.6 out of 5 stars         Men's Charged Surge 4 Sneaker       50       4.3 out of 5 stars         Men's Charged Assert 10       48       4.7 out of 5 stars         New Balance       48       4.6 out of 5 stars         New Balance       47       4.3 out of 5 stars         UGG       45       4.5 out of 5 stars         Men's 608 V5 Casual Comfort Cross Trainer       44       4.7 out of 5 stars         adidas       44       4.6 out of 5 stars         Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes       41       4.5 out of 5 stars         Skechers       41       4.5 out of 5 stars         adidas       40       4.6 out of 5 stars         Crocs       39       4.3 out of 5 stars         Hey Dude       38       4.4 out of 5 stars         Men's Drive Lo Sneaker       32       4.5 out of 5 stars         Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight       27       4.4 out of 5 stars	Men's Charged Assert 9 Running Shoe	57	4.4 out of 5 stars
Under Armour  Women's Classic Ultra Mini Platform Boot  Men's Charged Surge 4 Sneaker  Men's Charged Assert 10  Men's Charged Assert 10  Men's Charged Assert 10  Men's Balance  Men's Balance  Men's Balance  Men's 608 V5 Casual Comfort Cross Trainer  Adidas  Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes  Skechers  Adidas  Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes  Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes  Skechers  Adidas  Men's Men's Mily Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Light-Weight  Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Men's Mally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Men's Daily 4.0 und of 5 stars  Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Men's Mally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Men's Daily 4.0 und of 5 stars  Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  Men's Daily 4.0 und of 5 stars			
Women's Classic Ultra Mini Platform Boot514.6 out of 5 starsMen's Charged Surge 4 Sneaker504.3 out of 5 starsMen's Charged Assert 10484.7 out of 5 starsNew Balance484.6 out of 5 starsNew Balance474.3 out of 5 starsUGG454.5 out of 5 starsMen's 608 V5 Casual Comfort Cross Trainer444.7 out of 5 starsadidas444.6 out of 5 starsMen's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes414.5 out of 5 starsSkechers414.5 out of 5 starsadidas404.6 out of 5 starsCrocs394.3 out of 5 starsHey Dude384.4 out of 5 starsmens Daily 4.0384.4 out of 5 starsMen's Drive Lo Sneaker324.5 out of 5 starsMen's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight274.4 out of 5 stars			
Men's Charged Surge 4 Sneaker504.3 out of 5 starsMen's Charged Assert 10484.7 out of 5 starsNew Balance484.6 out of 5 starsNew Balance474.3 out of 5 starsUGG454.5 out of 5 starsMen's 608 V5 Casual Comfort Cross Trainer444.7 out of 5 starsadidas444.6 out of 5 starsMen's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes414.5 out of 5 starsSkechers414.5 out of 5 starsadidas404.6 out of 5 starsCrocs394.3 out of 5 starsHey Dude384.4 out of 5 starsmens Daily 4.0384.4 out of 5 starsMen's Drive Lo Sneaker324.5 out of 5 starsMen's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight274.4 out of 5 stars		55	4.6 out of 5 stars
Men's Charged Assert 10  New Balance  New Balance  New Balance  UGG  Men's 608 V5 Casual Comfort Cross Trainer  adidas  Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes  Kechers  adidas  Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes  Kechers  At 4.5 out of 5 stars  44 4.6 out of 5 stars  45 4.5 out of 5 stars  46 4.5 out of 5 stars  47 4.3 out of 5 stars  48 4.6 out of 5 stars  49 4.6 out of 5 stars  49 4.6 out of 5 stars  40 4.6 out of 5 stars  41 4.5 out of 5 stars  42 4.5 out of 5 stars  43 4.4 out of 5 stars  44 4.5 out of 5 stars  45 4.5 out of 5 stars  46 4.5 out of 5 stars  47 4.3 out of 5 stars  48 4.4 out of 5 stars  49 4.5 out of 5 stars  40 4.6 out of 5 stars	Women's Classic Ultra Mini Platform Boot	51	4.6 out of 5 stars
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New Balance UGG Hen's 608 V5 Casual Comfort Cross Trainer  45 4.5 out of 5 stars 46 4.7 out of 5 stars 47 4.3 out of 5 stars 48 4.7 out of 5 stars 49 4.6 out of 5 stars 40 4.5 out of 5 stars 41 4.5 out of 5 stars 42 4.5 out of 5 stars 43 4.5 out of 5 stars 44 4.6 out of 5 stars 45 4.5 out of 5 stars 46 4.6 out of 5 stars 47 4.5 out of 5 stars 48 4.5 out of 5 stars 49 4.6 out of 5 stars 40 4.5 out of 5 stars 40 4.6 out of 5 stars	Men's Charged Assert 10	48	4.7 out of 5 stars
UGG Men's 608 V5 Casual Comfort Cross Trainer  44 4.7 out of 5 stars  Adidas 45 4.5 out of 5 stars  46 4.7 out of 5 stars  47 4.6 out of 5 stars  48 4.6 out of 5 stars  49 4.5 out of 5 stars  40 4.5 out of 5 stars  40 4.6 out of 5 stars  40 4.6 out of 5 stars  40 4.6 out of 5 stars  41 4.5 out of 5 stars  42 4.5 out of 5 stars  43 4.4 out of 5 stars  44 4.5 out of 5 stars  45 4.5 out of 5 stars  46 4.6 out of 5 stars  47 4.6 out of 5 stars  48 4.4 out of 5 stars  49 4.5 out of 5 stars  49 4.5 out of 5 stars  40 4.6 out of 5 stars  40 4.6 out of 5 stars  40 4.5 out of 5 stars  40 4.6 out of 5 stars  40 4.5 out of 5 stars  40 4.5 out of 5 stars  40 4.6 out of 5 stars  40 4.5 out of 5 stars  40 4.5 out of 5 stars  40 4.6 out of 5 stars  40 4.5 out of 5 stars	New Balance	48	4.6 out of 5 stars
Men's 608 V5 Casual Comfort Cross Trainer  adidas  Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes Skechers adidas Crocs  Hey Dude Hey Du	New Balance	47	4.3 out of 5 stars
adidas Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes Skechers Adidas Crocs Hey Dude Men's Drive Lo Sneaker Men's Drive Lo Sneaker Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  44	UGG	45	4.5 out of 5 stars
Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes Skechers Addas Addas Crocs Bey Dude	Men's 608 V5 Casual Comfort Cross Trainer	44	4.7 out of 5 stars
Skechers adidas Crocs 41 4.5 out of 5 stars 42 4.6 out of 5 stars 43 4.3 out of 5 stars 45 4.3 out of 5 stars 46 4.4 out of 5 stars 47 4.4 out of 5 stars 48 4.4 out of 5 stars 49 4.5 out of 5 stars 49 4.5 out of 5 stars 49 4.5 out of 5 stars 40 4.6 out of 5 stars 40 4.5 out of 5 stars 40 4.5 out of 5 stars 40 4.6 out of 5 stars 40 4.5 out of 5 stars 40 4.5 out of 5 stars 40 4.6 out of 5 stars 40 4.5 out of 5 stars	adidas	44	4.6 out of 5 stars
adidas 40 4.6 out of 5 stars Crocs 39 4.3 out of 5 stars Hey Dude 38 4.4 out of 5 stars mens Daily 4.0 38 4.4 out of 5 stars Men's Drive Lo Sneaker 32 4.5 out of 5 stars Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight 27 4.4 out of 5 stars	Men's KnitFlex Breeze Mesh Sneakers Oxfords Lace-Up Lightweight Casual Walking Shoes	41	4.5 out of 5 stars
Crocs Hey Dude Hey Dude 38 4.4 out of 5 stars mens Daily 4.0 38 4.4 out of 5 stars Men's Drive Lo Sneaker 38 4.4 out of 5 stars 4.5 out of 5 stars Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight 39 4.3 out of 5 stars 4.4 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars 4.4 out of 5 stars	* 0 0	41	4.5 out of 5 stars
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mens Daily 4.0 38 4.4 out of 5 stars Men's Drive Lo Sneaker 32 4.5 out of 5 stars Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight 27 4.4 out of 5 stars	Crocs	39	4.3 out of 5 stars
mens Daily 4.0 38 4.4 out of 5 stars Men's Drive Lo Sneaker 32 4.5 out of 5 stars Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight 27 4.4 out of 5 stars	Hey Dude	38	4.4 out of 5 stars
Men's Drive Lo Sneaker Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight  32 4.5 out of 5 stars 27 4.4 out of 5 stars	v	38	
Men's Wally Stretch   Men's Loafers   Men's Slip On Shoes   Comfortable & Light-Weight 27 4.4 out of 5 stars	v	32	4.5 out of 5 stars
Unisex Adult Classic Clog 15 4.6 out of 5 stars	Unisex Adult Classic Clog	15	4.6 out of 5 stars

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## 2
                                                                     Authentics Men's Regular Fit Comfort
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## 4
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## 5
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                                                                             ComfortSoft EcoSmart Men's F
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## 8
                                              Men's Joggers, Lightweight Lounge Pants, Jersey Graphic Pa
## 9
                            3 Packs Leggings with Pockets for Women, Soft High Waisted Tummy Control Wo
## 10
## 11 High Waisted Leggings for Women - No See Through Tummy Control Cycling Workout Yoga Pants with Po
                                     Flare Leggings, Crossover Yoga Pants with Tummy Control, High-Wais
              Men's Sweatpants with Zipper Pockets Tapered Joggers for Men Athletic Pants for Workout,
## 13
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                              Men's Pants, Lightweight Open-Hem Lounge Pants for Men, Jersey Pants (Reg
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                                     Men's Classic-Fit Wrinkle-Resistant Flat-Front Chino Pant (Availabl
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                                          3 Pack Fleece Active Tech Joggers for Men, Mens Sweatpants wit
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##
      Price
                       Ratings
## 1
         49 4.4 out of 5 stars
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         39 4.3 out of 5 stars
## 3
         36 4.4 out of 5 stars
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         18 4.5 out of 5 stars
## 23
         17 4.4 out of 5 stars
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## 24

17 4.3 out of 5 stars

nameofproduct5	Price	Ratings
Rustler Authentics Men's Regular Fit Comfort Flex Waist Jean Wrangler Authentics Men's Woven Vital Pants Under Armour	49 39 36 34 34	4.4 out of 5 stars 4.3 out of 5 stars 4.4 out of 5 stars 4.6 out of 5 stars 4.3 out of 5 stars
ComfortSoft EcoSmart Men's Fleece Sweatpants Hanes Men's Joggers, Lightweight Lounge Pants, Jersey Graphic Pants for Men, 31" 3 Packs Leggings with Pockets for Women, Soft High Waisted Tummy Control Workout Yoga Pants Fruit of the Loom	30 30 29 29 28	4.5 out of 5 stars 4.3 out of 5 stars 4.6 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars
High Waisted Leggings for Women - No See Through Tummy Control Cycling Workout Yoga Pants with Pockets Reg & Plus Flare Leggings, Crossover Yoga Pants with Tummy Control, High-Waisted and Wide Leg Men's Sweatpants with Zipper Pockets Tapered Joggers for Men Athletic Pants for Workout, Jogging, Running Sunzel Amazon's Choice: Overall Pick	28 27 26 25 25	4.3 out of 5 stars 4.3 out of 5 stars 4.3 out of 5 stars 4.6 out of 5 stars 4.5 out of 5 stars
TNNZEET Men's Relaxed Fit Stretch Cargo Pant Men's Pants, Lightweight Open-Hem Lounge Pants for Men, Jersey Pants (Reg. or Big & Tall) Men's Classic-Fit Wrinkle-Resistant Flat-Front Chino Pant (Available in Big & Tall) Syrinx	25 24 22 19 19	4.3 out of 5 stars 4.4 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars 4.5 out of 5 stars
Ultra Performance Champion 3 Pack Fleece Active Tech Joggers for Men, Mens Sweatpants with Zipper Pockets Champion Wrangler Authentics	19 18 17 17 16	4.4 out of 5 stars 4.5 out of 5 stars 4.4 out of 5 stars 4.3 out of 5 stars 4.5 out of 5 stars
Eversoft Fleece Elastic Bottom Sweatpants with Pockets, Relaxed Fit, Moisture Wicking, Breathable G Gradual Thick High Waist Yoga Pants with Pockets, Tummy Control Workout Running Yoga Leggings for Women THE GYM PEOPLE Amazon Essentials	13 12 12 11 11	4.4 out of 5 stars 4.4 out of 5 stars 4.3 out of 5 stars 4.3 out of 5 stars 4.3 out of 5 stars

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## 25   16 4.5 out of 5 stars
## 26   13 4.4 out of 5 stars
## 27   12 4.4 out of 5 stars
## 28   12 4.3 out of 5 stars
## 29   11 4.3 out of 5 stars
## 30   11 4.3 out of 5 stars

pants_ranked %>%
    kable("latex", booktabs = TRUE) %>%
    kable_styling(latex_options = "scale_down")
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 $\label{eq:high-price} \begin{tabular}{ll} High Price + High Rating: Products ranked at the top of each list with high prices and ratings are generally regarded as premium and popular choices within the category. Lower Price + High Rating: Products with lower prices but high ratings indicate affordable yet well-received options, highlighting value for money. \\ \#ffdgbfhanafghrjfbrfsjvbmsnfhdjsdg$