## Week-4: Code-along

Phua Zong Yao 2023-09-03

## II. Code to edit and execute using the Codealong.Rmd file

## A. Data Wrangling

#### 1. Loading packages (Slide #16)

```
# Load package tidyverse
library(tidyverse)
```

```
## — Attaching core tidyverse packages -
                                                             – tidyverse 2.0.0 —
## √ dplyr 1.1.2
                        √ readr
                                    2.1.4
## √ forcats 1.0.0

√ stringr

                                    1.5.0
## √ ggplot2 3.4.3
                      √ tibble
                                    3.2.1
## ✓ lubridate 1.9.2
                        √ tidyr
                                    1.3.0
## √ purrr
             1.0.2
## -- Conflicts -
                                                      - tidyverse_conflicts() -\!-
## X dplyr::filter() masks stats::filter()
## X dplyr::lag() masks stats::lag()
### i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to be
come errors
```

#### 2. Loading data-set (Slide #16)

```
# Read data from the hotels.csv file and assign it to a variable named, "hotels"
read_csv('hotels.csv')
```

```
## Rows: 119390 Columns: 32
## — Column specification
## Delimiter: ","
## chr (13): hotel, arrival_date_month, meal, country, market_segment, distrib...
## dbl (18): is_canceled, lead_time, arrival_date_year, arrival_date_week_numb...
## date (1): reservation_status_date
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
## # A tibble: 119,390 × 32
      hotel
                   is_canceled lead_time arrival_date_year arrival_date_month
##
      <chr>>
                         <dbl>
                                   <dbl>
                                                      <dbl> <chr>
##
   1 Resort Hotel
                             0
                                     342
                                                       2015 July
   2 Resort Hotel
                                     737
                                                       2015 July
                             0
##
   3 Resort Hotel
                             0
                                       7
                                                       2015 July
## 4 Resort Hotel
                             0
                                      13
                                                       2015 July
## 5 Resort Hotel
                             0
                                      14
                                                       2015 July
## 6 Resort Hotel
                             0
                                      14
                                                       2015 July
  7 Resort Hotel
                             0
                                       0
                                                       2015 July
## 8 Resort Hotel
                                       9
                                                       2015 July
## 9 Resort Hotel
                                      85
                                                       2015 July
## 10 Resort Hotel
                                      75
                                                       2015 July
## # i 119,380 more rows
## # i 27 more variables: arrival date week number <dbl>,
       arrival_date_day_of_month <dbl>, stays_in_weekend_nights <dbl>,
       stays_in_week_nights <dbl>, adults <dbl>, children <dbl>, babies <dbl>,
       meal <chr>, country <chr>, market segment <chr>,
## #
## #
       distribution channel <chr>, is repeated guest <dbl>,
## #
       previous_cancellations <dbl>, previous_bookings_not_canceled <dbl>, ...
```

```
hotels <- read_csv('hotels.csv')</pre>
```

```
## Rows: 119390 Columns: 32
## — Column specification —
## Delimiter: ","
## chr (13): hotel, arrival_date_month, meal, country, market_segment, distrib...
## dbl (18): is_canceled, lead_time, arrival_date_year, arrival_date_week_numb...
## date (1): reservation_status_date
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

#### 3. List names of the variables in the data-set (Slide #19)

```
# Enter code here
names(hotels)
```

```
## [1] "hotel"
                                          "is canceled"
## [3] "lead_time"
                                          "arrival_date_year"
## [5] "arrival_date_month"
                                          "arrival_date_week_number"
## [7] "arrival_date_day_of_month"
                                          "stays_in_weekend_nights"
                                          "adults"
## [9] "stays_in_week_nights"
## [11] "children"
                                          "babies"
## [13] "meal"
                                          "country"
## [15] "market_segment"
                                          "distribution_channel"
## [17] "is_repeated_guest"
                                          "previous_cancellations"
## [19] "previous_bookings_not_canceled" "reserved_room_type"
## [21] "assigned_room_type"
                                          "booking_changes"
## [23] "deposit_type"
                                          "agent"
## [25] "company"
                                          "days_in_waiting_list"
## [27] "customer_type"
## [29] "required_car_parking_spaces"
                                          "total_of_special_requests"
## [31] "reservation_status"
                                          "reservation_status_date"
```

### 4. Glimpse of contents of the data-set (Slide #20)

```
# Enter code here
glimpse(hotels)
```

```
## Rows: 119,390
## Columns: 32
## $ hotel
                                  <chr> "Resort Hotel", "Resort Hotel", "Resort...
## $ is_canceled
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, ...
                                  <dbl> 342, 737, 7, 13, 14, 14, 0, 9, 85, 75, ...
## $ lead_time
## $ arrival_date_year
                                  <dbl> 2015, 2015, 2015, 2015, 2015, 2015, 201...
                                  <chr> "July", "July", "July", "July", "July", "...
## $ arrival date month
                                  ## $ arrival_date_week_number
## $ arrival_date_day_of_month
                                  <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ...
## $ stays_in_weekend_nights
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
                                  <dbl> 0, 0, 1, 1, 2, 2, 2, 2, 3, 3, 4, 4, 4, ...
## $ stays_in_week_nights
## $ adults
                                  <dbl> 2, 2, 1, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, ...
## $ children
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ babies
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
                                  <chr> "BB", "BB", "BB", "BB", "BB", "BB...
## $ meal
                                  <chr> "PRT", "PRT", "GBR", "GBR", "GBR...
## $ country
## $ market_segment
                                  <chr> "Direct", "Direct", "Corporat...
                                  <chr> "Direct", "Direct", "Corporat...
## $ distribution channel
## $ is repeated guest
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ previous_cancellations
## $ previous_bookings_not_canceled <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
                                 ## $ reserved_room_type
                                 ## $ assigned_room_type
## $ booking_changes
                                  <dbl> 3, 4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
                                  <chr> "No Deposit", "No Deposit", "No Deposit...
## $ deposit_type
                                  <chr> "NULL", "NULL", "304", "240", "...
## $ agent
                                  <chr> "NULL", "NULL", "NULL", "NULL", "NULL", ...
## $ company
## $ days_in_waiting_list
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
                                  <chr> "Transient", "Transient", "Transient", ...
## $ customer_type
                                  <dbl> 0.00, 0.00, 75.00, 75.00, 98.00, 98.00,...
## $ adr
## $ required_car_parking_spaces
                                  <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ...
## $ total_of_special_requests
                                 <dbl> 0, 0, 0, 0, 1, 1, 0, 1, 1, 0, 0, 0, 3, ...
                                  <chr> "Check-Out", "Check-Out", "Check-Out", ...
## $ reservation status
                                  <date> 2015-07-01, 2015-07-01, 2015-07-02, 20...
## $ reservation_status_date
```

## B. Choosing rows or columns

#### 5. Select a single column (Slide #24)

```
# Enter code here
select(hotels,lead_time)
```

```
## # A tibble: 119,390 × 1
      lead_time
##
          <dbl>
##
   1
            342
   2
            737
##
   3
##
              7
##
             13
   5
##
             14
##
   6
##
   7
              0
##
## 9
             85
## 10
             75
## # i 119,380 more rows
```

#### 6. Select multiple columns (Slide #25)

```
# Enter code here
select(hotels,lead_time,agent,market_segment)
```

```
## # A tibble: 119,390 × 3
##
     lead_time agent market_segment
##
         <dbl> <chr> <chr>
           342 NULL Direct
   1
##
           737 NULL Direct
  2
##
##
             7 NULL Direct
            13 304
                    Corporate
##
   5
           14 240
                    Online TA
##
            14 240
                    Online TA
   6
##
   7
             0 NULL Direct
##
## 8
             9 303
                    Direct
## 9
            85 240
                    Online TA
            75 15
                     Offline TA/TO
## 10
## # i 119,380 more rows
```

## 7. Arrange entries of a column (Slide #28)

```
# Enter code here
arrange(hotels,lead_time)
```

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```
## # A tibble: 119,390 × 32
               is_canceled lead_time arrival_date_year arrival_date_month
      hotel
                         <dbl>
                                   <dbl>
                                                     <dbl> <chr>
##
      <chr>>
   1 Resort Hotel
##
                             0
                                       0
                                                      2015 July
   2 Resort Hotel
                             0
                                       0
                                                      2015 July
##
   3 Resort Hotel
                             0
                                       0
                                                      2015 July
## 4 Resort Hotel
                             0
                                       0
                                                      2015 July
##
   5 Resort Hotel
                                       0
                                                      2015 July
## 6 Resort Hotel
                                       0
                                                      2015 July
   7 Resort Hotel
                             0
                                       0
                                                      2015 July
## 8 Resort Hotel
                                       0
                                                      2015 July
## 9 Resort Hotel
                                       0
                                                      2015 July
## 10 Resort Hotel
                                                      2015 July
## # i 119,380 more rows
## # i 27 more variables: arrival_date_week_number <dbl>,
       arrival_date_day_of_month <dbl>, stays_in_weekend_nights <dbl>,
       stays_in_week_nights <dbl>, adults <dbl>, children <dbl>, babies <dbl>,
## #
       meal <chr>, country <chr>, market_segment <chr>,
## #
       distribution channel <chr>, is repeated guest <dbl>,
## #
       previous_cancellations <dbl>, previous_bookings_not_canceled <dbl>, ...
```

# 8. Arrange entries of a column in the descending order (Slide #30)

```
# Enter code here
arrange(hotels,desc(lead_time))
```

```
## # A tibble: 119,390 × 32
##
      hotel
                   is_canceled lead_time arrival_date_year arrival_date_month
##
      <chr>>
                         <dbl>
                                   <dbl>
                                                      <dbl> <chr>
##
  1 Resort Hotel
                             а
                                     737
                                                       2015 July
## 2 Resort Hotel
                                     709
                                                       2016 February
## 3 City Hotel
                                     629
                                                       2017 March
                                                       2017 March
## 4 City Hotel
                             1
                                     629
## 5 City Hotel
                             1
                                                       2017 March
                                     629
## 6 City Hotel
                             1
                                     629
                                                       2017 March
                                                       2017 March
## 7 City Hotel
                                     629
                             1
## 8 City Hotel
                                     629
                                                       2017 March
## 9 City Hotel
                             1
                                     629
                                                       2017 March
## 10 City Hotel
                                     629
                                                       2017 March
## # i 119,380 more rows
## # i 27 more variables: arrival_date_week_number <dbl>,
## #
       arrival_date_day_of_month <dbl>, stays_in_weekend_nights <dbl>,
       stays_in_week_nights <dbl>, adults <dbl>, children <dbl>, babies <dbl>,
## #
       meal <chr>, country <chr>, market_segment <chr>,
## #
## #
       distribution_channel <chr>, is_repeated_guest <dbl>,
       previous cancellations <dbl>, previous bookings not canceled <dbl>, ...
```

#### 9. Select columns and arrange the entries of a column (Slide

#### #31)

```
# Enter code here
select(hotels,lead_time)
```

```
## # A tibble: 119,390 × 1
      lead_time
##
##
         <dbl>
            342
##
   1
##
   2
           737
             7
##
## 4
             13
   5
            14
##
##
   6
##
## 8
## 9
             75
## 10
## # i 119,380 more rows
```

```
arrange(
   select(hotels,lead_time),
   desc(lead_time)
)
```

```
## # A tibble: 119,390 × 1
##
      lead_time
##
          <dbl>
##
            737
##
            709
   3
            629
##
##
            629
## 5
            629
## 6
            629
   7
            629
##
## 8
            629
## 9
            629
            629
## 10
## # i 119,380 more rows
```

# 10. Select columns and arrange the entries of a column using the pipe operator (Slide #37)

```
# Enter code here
hotels %>%
  select(lead_time) %>%
  arrange(desc(lead_time))
```

```
## # A tibble: 119,390 × 1
     lead_time
##
          <dbl>
##
  1
            737
   2
           709
##
##
   3
            629
## 4
           629
## 5
           629
## 6
           629
##
   7
            629
## 8
            629
## 9
            629
## 10
            629
## # i 119,380 more rows
```

## 11. Pick rows matching a condition (Slide #44)

```
# Enter code here
hotels %>%
  filter(children >= 1) %>%
  select(hotel,children)
```

```
## # A tibble: 8,590 × 2
                  children
##
     hotel
                     <dbl>
##
      <chr>>
##
  1 Resort Hotel
  2 Resort Hotel
##
## 3 Resort Hotel
                         2
## 4 Resort Hotel
                         2
## 5 Resort Hotel
   6 Resort Hotel
##
## 7 Resort Hotel
                         2
## 8 Resort Hotel
                         2
## 9 Resort Hotel
                         1
## 10 Resort Hotel
## # i 8,580 more rows
```

## 12. Pick rows matching multiple conditions (Slide #46)

```
# Enter code here
hotels %>%
filter(children >= 1,hotel == "City Hotel") %>%
select(hotel,children)
```

```
## # A tibble: 5,106 × 2
   hotel children
##
     <chr>
                   <dbl>
## 1 City Hotel
                       1
## 2 City Hotel
                       2
## 3 City Hotel
                       1
## 4 City Hotel
                       1
## 5 City Hotel
                       1
## 6 City Hotel
                       1
## 7 City Hotel
                       1
## 8 City Hotel
                       1
## 9 City Hotel
                       1
## 10 City Hotel
## # i 5,096 more rows
```

# 13. Non-conditional selection of rows: sequence of indices (Slide #49)

```
# Enter code here
hotels %>% slice(1:5)
```

```
## # A tibble: 5 × 32
   hotel is_canceled lead_time arrival_date_year arrival_date_month
                       <dbl>
                                <dbl>
##
     <chr>>
                                                  <dbl> <chr>
## 1 Resort Hotel
                           0
                                   342
                                                    2015 July
## 2 Resort Hotel
                            0
                                    737
                                                    2015 July
## 3 Resort Hotel
                           0
                                     7
                                                     2015 July
## 4 Resort Hotel
                           0
                                    13
                                                     2015 July
## 5 Resort Hotel
                            0
                                    14
                                                     2015 July
## # i 27 more variables: arrival_date_week_number <dbl>,
       arrival_date_day_of_month <dbl>, stays_in_weekend_nights <dbl>,
      stays_in_week_nights <dbl>, adults <dbl>, children <dbl>, babies <dbl>,
## #
      meal <chr>, country <chr>, market segment <chr>,
## #
      distribution_channel <chr>, is_repeated_guest <dbl>,
## #
## #
       previous_cancellations <dbl>, previous_bookings_not_canceled <dbl>,
      reserved_room_type <chr>, assigned_room_type <chr>, ...
## #
```

# 14. Non-conditional selection of rows: non-consecutive/specific indices (Slide #50)

```
# Enter code here
hotels %>% slice(1,3,5)
```

```
## # A tibble: 3 × 32
               is_canceled lead_time arrival_date_year arrival_date_month
     hotel
##
     <chr>>
                        <dbl>
                                  <dbl>
                                                    <dbl> <chr>
                            0
                                    342
## 1 Resort Hotel
                                                      2015 July
## 2 Resort Hotel
                            0
                                      7
                                                      2015 July
## 3 Resort Hotel
                                     14
                                                      2015 July
## # i 27 more variables: arrival_date_week_number <dbl>,
       arrival_date_day_of_month <dbl>, stays_in_weekend_nights <dbl>,
       stays_in_week_nights <dbl>, adults <dbl>, children <dbl>, babies <dbl>,
## #
## #
       meal <chr>, country <chr>, market_segment <chr>,
       distribution_channel <chr>, is_repeated_guest <dbl>,
## #
       previous_cancellations <dbl>, previous_bookings_not_canceled <dbl>,
## #
## #
       reserved_room_type <chr>, assigned_room_type <chr>, ...
```

#### 15. Pick unique rows using distinct() (Slide #52)

```
# Enter code here

distinct(
  hotels,
  hotel)
```

```
## # A tibble: 2 x 1
## hotel
## <chr>
## 1 Resort Hotel
## 2 City Hotel
```

## C. Creating new columns

#### 16. Creating a single column with mutate() (Slide #56)

```
# Enter code here
hotels %>%
mutate(little_ones = children + babies) %>%
select(hotel,little_ones,children,babies)
```

```
## # A tibble: 119,390 × 4
     hotel little_ones children babies
##
     <chr>
                       <dbl>
                                <dbl> <dbl>
                           0
                                    0
##
  1 Resort Hotel
                                           а
  2 Resort Hotel
                                           0
   3 Resort Hotel
                           0
                                           0
##
  4 Resort Hotel
   5 Resort Hotel
  6 Resort Hotel
  7 Resort Hotel
                           0
                                    0
## 8 Resort Hotel
## 9 Resort Hotel
                                           0
## 10 Resort Hotel
## # i 119,380 more rows
```

### 17. Creating multiple columns with mutate() (Slide #58)

```
## # A tibble: 119,390 × 5
     hotel little_ones children babies average_little_ones
##
     <chr>>
##
                       <dbl>
                                 <dbl> <dbl>
                                                            <dbl>
                                     0
                                            0
##
   1 Resort Hotel
   2 Resort Hotel
                                                               NA
   3 Resort Hotel
                            0
                                     0
                                            0
                                                               NΑ
  4 Resort Hotel
                                                               NA
   5 Resort Hotel
                                            0
##
                                                               NΔ
                            0
                                     0
  6 Resort Hotel
                                                               NΑ
                            0
                                     0
   7 Resort Hotel
                                            0
                                                               NA
## 8 Resort Hotel
                                                               NA
   9 Resort Hotel
                                            0
                                                               NΔ
## 10 Resort Hotel
                                                               NA
## # i 119,380 more rows
```

## D. More operations with examples

## 18. count() to get frequencies (Slide #60)

```
# Enter code here
hotels %>%
  count(market_segment)
```

```
## # A tibble: 8 × 2
## market_segment
## <chr>
               <int>
## 1 Aviation
                    237
## 2 Complementary
                    743
## 3 Corporate
                   5295
## 4 Direct
                  12606
## 5 Groups
                  19811
## 6 Offline TA/TO 24219
## 7 Online TA
                56477
## 8 Undefined
```

#### 19. count() to get frequencies with sorting of count (Slide #61)

```
# Enter code here
hotels %>%
  count(market_segment, sort=TRUE)
```

```
## # A tibble: 8 × 2
    market segment
    <chr>>
                <int>
## 1 Online TA 56477
## 2 Offline TA/TO 24219
                19811
## 3 Groups
## 4 Direct
                 12606
## 5 Corporate
                 5295
## 6 Complementary 743
## 7 Aviation
                    237
## 8 Undefined
                      2
```

## 20. count() multiple variables (Slide #62)

```
# Enter code here
hotels %>%
count(hotel,market_segment)
```

## 1

102.

```
## # A tibble: 14 × 3
     hotel
                  market_segment
##
     <chr>>
                  <chr>
                                 <int>
##
   1 City Hotel Aviation
                                   237
   2 City Hotel Complementary
                                  542
##
   3 City Hotel Corporate
                                  2986
## 4 City Hotel Direct
                                 6093
## 5 City Hotel Groups
                                 13975
## 6 City Hotel Offline TA/TO 16747
  7 City Hotel Online TA
                                 38748
## 8 City Hotel
                  Undefined
## 9 Resort Hotel Complementary
                                   201
## 10 Resort Hotel Corporate
                                  2309
## 11 Resort Hotel Direct
                                  6513
## 12 Resort Hotel Groups
                                  5836
## 13 Resort Hotel Offline TA/TO
                                 7472
## 14 Resort Hotel Online TA
                                 17729
```

## 21. summarise() for summary statistics (Slide #63)

```
# Enter code here
hotels %>%
  summarise(mean_adr = mean(adr))

## # A tibble: 1 x 1
## mean_adr
## <dbl>
```

## 22. summarise() by using group\_by to find mean (Slide #64)

```
# Enter code here
hotels %>%
  group_by(hotel) %>%
  summarise(mean_adr = mean(adr))
```

#### 23. summarise() by using group\_by to get count (Slide #65)

```
# Enter code here
hotels %>%
  group_by(hotel) %>%
  summarise(count = n())
```

### 24. summarise() for multiple summary statistics (Slide #67)

```
# Enter code here

hotels %>%
  summarise(
    min_adr = min(adr),
    mean_adr = mean(adr),
    median_adr = median(adr),
    max_adr = max(adr)
)
```

```
## # A tibble: 1 × 4

## min_adr mean_adr median_adr max_adr

## <dbl> <dbl> <dbl> <dbl>
## 1 -6.38 102. 94.6 5400
```

## 25. select(), slice() and arrange() (Slide #68)

```
# Enter code here
hotels %>%
  select(hotel,lead_time) %>%
  slice(1:5) %>%
  arrange(lead_time)
```

```
## # A tibble: 5 × 2
##
                  lead_time
    hotel
                      <dbl>
##
     <chr>>
                          7
## 1 Resort Hotel
## 2 Resort Hotel
                         13
                         14
## 3 Resort Hotel
## 4 Resort Hotel
                        342
## 5 Resort Hotel
                        737
```

## 26. select(), arrange() and slice() (Slide #69)

```
# Enter code here

hotels %>%
  select(hotel,lead_time) %>%
  arrange(lead_time) %>%
  slice(1:5)
```

#### 27. filter() to select rows based on conditions (Slide #73)

```
## # A tibble: 223 × 3
     adults babies children
##
      <dbl> <dbl> <dbl>
##
## 1
          0
                 0
                          3
  2
          0
                 0
                          2
##
  3
                          2
##
## 4
                          2
## 5
          0
                          2
## 6
                          3
  7
                          2
          0
                 1
##
## 8
          0
                 0
                          2
## 9
          0
                 0
                          2
                          2
## 10
## # i 213 more rows
```

## 28. filter() to select rows based on complicated conditions (Slide

#### **#74**)

## 29. count() and arrange() (Slide #76)

```
# Enter code here
hotels %>%
  count(market_segment) %>%
  arrange(desc(n))
```

```
## # A tibble: 8 × 2
    market_segment
    <chr>>
##
                    <int>
## 1 Online TA
                    56477
## 2 Offline TA/TO 24219
## 3 Groups
                   19811
## 4 Direct
                   12606
## 5 Corporate
                   5295
## 6 Complementary
                     743
## 7 Aviation
                      237
## 8 Undefined
                        2
```

#### 30. mutate(), select() and arrange() (Slide #77)

```
# Enter code here
hotels %>%
mutate(little_ones = children + babies) %>%
select(children,babies,little_ones) %>%
arrange(desc(little_ones))
```

```
## # A tibble: 119,390 × 3
     children babies little_ones
##
         <dbl> <dbl>
                            <dbl>
            10
##
   1
                    0
                               10
   2
             0
                               10
##
                   10
   3
                                9
##
             0
                    9
## 4
             2
                    1
                                3
##
   5
             2
                                3
             2
                    1
                                3
##
  6
##
   7
             3
                    0
                                3
## 8
             2
                                3
## 9
             2
                                3
## 10
             3
                                3
## # i 119,380 more rows
```

## 31. mutate(), filter() and select() (Slide #78)

```
# Enter code here

hotels %>%
  mutate(little_ones = children + babies) %>%
  filter(little_ones >= 1,hotel == "Resort Hotel") %>%
  select(hotel,little_ones)
```

```
## # A tibble: 3,929 × 2
                   little_ones
##
     hotel
##
      <chr>>
                         <dbl>
                             1
  1 Resort Hotel
##
   2 Resort Hotel
                             2
  3 Resort Hotel
                             2
## 4 Resort Hotel
                             2
  5 Resort Hotel
##
## 6 Resort Hotel
                             1
   7 Resort Hotel
                             2
##
## 8 Resort Hotel
                             2
                             1
## 9 Resort Hotel
## 10 Resort Hotel
                             1
## # i 3,919 more rows
```