Week-4: Code-along

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II. Code to edit and execute using the Code-along.Rmd file

A. Data Wrangling

Load package tidyverse

1. Loading packages (Slide #16)

```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.2
                             2.1.4
                   v readr
## v forcats 1.0.0
                             1.5.0
                   v stringr
## v ggplot2 3.4.3
                 v tibble
                             3.2.1
## v lubridate 1.9.2
                   v tidyr
                             1.3.0
## v purrr
           1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
```

x dplyr::lag() masks stats::lag()
i Use the conflicted package (http://conflicted.r-lib.org/) to force all conflicts to become error

2. Loading data-set (Slide #16)

x dplyr::filter() masks stats::filter()

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

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

names(hotels)

```
[1] "hotel"
                                          "is canceled"
##
                                          "arrival_date_year"
##
    [3] "lead time"
   [5] "arrival_date_month"
                                          "arrival_date_week_number"
##
                                          "stays_in_weekend_nights"
   [7] "arrival_date_day_of_month"
   [9] "stays_in_week_nights"
                                          "adults"
##
## [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"
                                          "adr"
## [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)

glimpse(hotels)

```
## Rows: 119,390
## Columns: 32
## $ hotel
                                                                            <chr> "Resort Hotel", "Resort Hotel", "Resort~
## $ is canceled
                                                                            <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, ~
## $ lead time
                                                                            <dbl> 342, 737, 7, 13, 14, 14, 0, 9, 85, 75,
## $ arrival_date_year
                                                                            <dbl> 2015, 2015, 2015, 2015, 2015, 2017
                                                                            <chr> "July", "July", "July", "July", "July", "July", "
## $ arrival_date_month
                                                                            ## $ arrival_date_week_number
## $ arrival_date_day_of_month
                                                                            ## $ stays_in_weekend_nights
                                                                            <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ stays_in_week_nights
                                                                            <dbl> 0, 0, 1, 1, 2, 2, 2, 2, 3, 3, 4, 4, 4, ~
## $ 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", 
## $ meal
                                                                            <chr> "PRT", "PRT", "GBR", "GBR", "GBR", "GBR~
## $ country
## $ market_segment
                                                                            <chr> "Direct", "Direct", "Direct", "Corporat~
## $ distribution channel
                                                                            <chr> "Direct", "Direct", "Direct", "Corporat~
                                                                            <dbl> 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, ~
## $ is_repeated_guest
## $ previous cancellations
                                                                            <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", "NULL", "304", "240", "~
## $ agent
## $ company
                                    <chr> "NULL", "NULL", "NULL", "NULL", "NULL", "
## $ 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
## $ reservation_status_date
                                    <date> 2015-07-01, 2015-07-01, 2015-07-02, 20~
```

B. Choosing rows or columns

5. Select a single column (Slide #24)

```
select(hotels,lead_time)
```

```
## # A tibble: 119,390 x 1
      lead_time
##
##
          <dbl>
##
  1
            342
## 2
            737
## 3
             7
## 4
             13
## 5
             14
##
  6
             14
##
  7
              0
##
              9
  8
## 9
             85
             75
## 10
## # i 119,380 more rows
```

6. Select multiple columns (Slide #25)

```
select(hotels, lead_time,agent,market_segment)
```

```
## # A tibble: 119,390 x 3
##
      lead_time agent market_segment
         <dbl> <chr> <chr>
##
##
  1
           342 NULL Direct
           737 NULL Direct
## 2
## 3
             7 NULL Direct
## 4
            13 304
                     Corporate
## 5
            14 240
                     Online TA
            14 240
                     Online TA
##
  6
##
   7
             O 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)

```
arrange(hotels, lead_time)
```

```
## # A tibble: 119,390 x 32
##
                   is_canceled lead_time arrival_date_year arrival_date_month
     hotel
##
      <chr>
                         <dbl>
                                   <dbl>
                                                     <dbl> <chr>
## 1 Resort Hotel
                                                      2015 July
                             0
                                       0
                                                      2015 July
## 2 Resort Hotel
                             0
                                       0
## 3 Resort Hotel
                             0
                                       0
                                                      2015 July
## 4 Resort Hotel
                             0
                                       0
                                                      2015 July
## 5 Resort Hotel
                             0
                                       0
                                                      2015 July
## 6 Resort Hotel
                             0
                                       0
                                                      2015 July
## 7 Resort Hotel
                             0
                                       0
                                                      2015 July
## 8 Resort Hotel
                             0
                                       0
                                                      2015 July
## 9 Resort Hotel
                             0
                                       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)

arrange(hotels, desc(lead_time))

```
## # A tibble: 119,390 x 32
     hotel
                   is_canceled lead_time arrival_date_year arrival_date_month
##
      <chr>
                         <dbl>
                                   <dbl>
                                                     <dbl> <chr>
## 1 Resort Hotel
                             0
                                     737
                                                      2015 July
## 2 Resort Hotel
                             0
                                     709
                                                      2016 February
## 3 City Hotel
                             1
                                     629
                                                      2017 March
## 4 City Hotel
                                                      2017 March
                             1
                                     629
## 5 City Hotel
                             1
                                     629
                                                      2017 March
## 6 City Hotel
                             1
                                     629
                                                      2017 March
## 7 City Hotel
                                     629
                                                      2017 March
                             1
## 8 City Hotel
                             1
                                     629
                                                      2017 March
                                     629
                                                      2017 March
## 9 City Hotel
                             1
## 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)

```
arrange(select(hotels, lead_time),desc(lead_time))
## # A tibble: 119,390 x 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
```

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

```
hotels %>%
select(lead_time) %>%
arrange(desc(lead_time))
```

```
## # A tibble: 119,390 x 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)

```
hotels %>%

filter(children >= 1) %>%

select(hotel, children)
```

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

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

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

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

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

```
hotels %>% slice(1:5)
```

```
## # A tibble: 5 x 32
            is_canceled lead_time arrival_date_year arrival_date_month
    hotel
    <chr>>
                     <dbl>
                               <dbl>
                                                   <dbl> <chr>
                         0
## 1 Resort Hotel
                                   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)

```
hotels %>%
slice(1,3,5)
## # A tibble: 3 x 32
                  is_canceled lead_time arrival_date_year arrival_date_month
     hotel
##
     <chr>>
                        <dbl>
                                  <dbl>
                                                     <dbl> <chr>
## 1 Resort Hotel
                            0
                                     342
                                                      2015 July
                            0
## 2 Resort Hotel
                                      7
                                                      2015 July
## 3 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>, ...
```

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

```
hotels %>% distinct(hotel)

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

C. Creating new columns

1 Resort Hotel
2 City Hotel

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

```
2 Resort Hotel
## 3 Resort Hotel
                             0
                                             0
## 4 Resort Hotel
                             0
                                             0
                             0
                                      0
                                             0
## 5 Resort Hotel
   6 Resort Hotel
                             0
                                      0
                                             0
##
  7 Resort Hotel
                             0
                                      0
                                             0
  8 Resort Hotel
                             0
## 9 Resort Hotel
                             0
                                      0
                                             0
## 10 Resort Hotel
                                             0
## # i 119,380 more rows
```

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

0

0

```
hotels %>%
  mutate(little_ones = children + babies,
          average_little_ones = mean(little_ones)) %>%
    select(hotel, little_ones,children,babies, average_little_ones)
## # A tibble: 119,390 x 5
##
      hotel
                   little_ones children babies average_little_ones
##
      <chr>
                        <dbl>
                                  <dbl>
                                         <dbl>
##
   1 Resort Hotel
                             0
                                      0
                                             0
                                                                 NA
  2 Resort Hotel
                             0
                                             0
                                                                 NA
## 3 Resort Hotel
                             0
                                      0
                                             0
                                                                 NA
## 4 Resort Hotel
                             0
                                      0
                                             0
                                                                 NA
## 5 Resort Hotel
                             0
                                      0
                                             0
                                                                 NA
## 6 Resort Hotel
                             0
                                             0
                                                                 NA
                             0
                                             0
## 7 Resort Hotel
                                      0
                                                                 NA
## 8 Resort Hotel
                             0
                                      0
                                             0
                                                                 NA
```

D. More operations with examples

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

```
hotels %>%
count(market_segment)
```

0

NA

NA

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

9 Resort Hotel

10 Resort Hotel

i 119,380 more rows

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

```
hotels %>%
count(market_segment, sort = TRUE) # <-- decreasing order of counts</pre>
## # A tibble: 8 x 2
##
    market_segment
##
    <chr>
                   <int>
## 1 Online TA
                   56477
## 2 Offline TA/TO 24219
## 3 Groups
                   19811
## 4 Direct
                   12606
## 5 Corporate
                    5295
                     743
## 6 Complementary
## 7 Aviation
                     237
## 8 Undefined
                       2
20. count() multiple variables (Slide #62)
hotels %>%
  count(hotel, market_segment)
## # A tibble: 14 x 3
##
     hotel market_segment
                                 <int>
##
      <chr>
                 <chr>
## 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
                                     2
## 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)
# mean average daily rate for all bookings
hotels %>%
 summarise(mean_adr = mean(adr))
## # A tibble: 1 x 1
##
    mean_adr
##
        <dbl>
```

1

102.

22. summarise() by using group_by to find mean (Slide #64)

```
# mean average daily rate for all booking at city and resort hotels
hotels %>%
  group_by(hotel) %>%
  summarise(mean_adr = mean(adr))
## # A tibble: 2 x 2
    hotel
                 mean_adr
##
     <chr>>
                    <dbl>
## 1 City Hotel
                     105.
## 2 Resort Hotel
                     95.0
23. summarise() by using group_by to get count (Slide #65)
hotels %>%
  group_by(hotel) %>%
 summarise(count = n())
## # A tibble: 2 x 2
   hotel
              count
     <chr>
                 <int>
## 1 City Hotel 79330
## 2 Resort Hotel 40060
#This would give the same result as the following
hotels %>%
count(hotel)
## # A tibble: 2 x 2
##
    hotel
##
     <chr>
                 <int>
## 1 City Hotel 79330
## 2 Resort Hotel 40060
24. summarise() for multiple summary statistics (Slide #67)
hotels %>%
  summarise(
   min_adr = min(adr),
   mean_adr = mean(adr),
    median_adr = median(adr),
    max_adr = max(adr)
## # A tibble: 1 x 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)

```
hotels %>%
  select(hotel, lead_time) %>%
 slice(1:5) %>%
 arrange(lead_time)
## # A tibble: 5 x 2
          lead_time
##
    hotel
##
    <chr>
                   <dbl>
## 1 Resort Hotel
                       7
## 2 Resort Hotel
                       13
## 3 Resort Hotel
                       14
## 4 Resort Hotel
                       342
## 5 Resort Hotel
                       737
26. select(), arrange() and slice() (Slide #69)
hotels %>%
  select(hotel, lead_time) %>%
  arrange(lead_time) %>%
 slice(1:5)
## # A tibble: 5 x 2
  hotel lead time
##
    <chr>
                    <dbl>
## 1 Resort Hotel
## 2 Resort Hotel
                         0
## 3 Resort Hotel
                         0
## 4 Resort Hotel
                         0
## 5 Resort Hotel
27. filter() to select rows based on conditions (Slide #73)
# bookings in City Hotels
hotels %>%
 filter(hotel == "City Hotel")
## # A tibble: 79,330 x 32
##
            is_canceled lead_time arrival_date_year arrival_date_month
     hotel
##
     <chr>>
                   <dbl>
                            <dbl>
                                                 <dbl> <chr>
                       0
## 1 City Hotel
                                  6
                                                  2015 July
## 2 City Hotel
                        1
                                  88
                                                  2015 July
## 3 City Hotel
                        1
                                65
                                                  2015 July
                               92
## 4 City Hotel
                         1
                                                 2015 July
                               100
## 5 City Hotel
                        1
                                                 2015 July
## 6 City Hotel
                        1
                                79
                                                 2015 July
                        0
## 7 City Hotel
                                   3
                                                  2015 July
```

```
## 8 City Hotel
                           1
                                     63
                                                     2015 July
## 9 City Hotel
                                    62
                                                     2015 July
                           1
## 10 City Hotel
                                    62
                                                     2015 July
## # i 79,320 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>, ...
# bookings where adults is 0 and children is greater than or equal to 1
hotels %>%
  filter(
    ) %>%
  select(adults, babies, children)
## # A tibble: 119,390 x 3
##
      adults babies children
       <dbl>
             <dbl>
                       <dbl>
##
##
   1
           2
                  0
                           0
##
  2
           2
                  0
                           0
##
   3
                  0
           1
## 4
           1
                  0
                           0
##
   5
           2
                  0
##
  6
           2
                  0
                           0
##
   7
           2
                  0
## 8
           2
                  0
                           0
           2
## 9
                  0
                           0
           2
                  0
## 10
## # i 119,380 more rows
```

28. filter() to select rows based on complicated conditions (Slide #74)

```
# bookings where adults is 1 and children is greater than or equal to 1 or babies is greater than or eq
hotels %>%
filter( adults == 1,
    children >= 1 | babies >=1) %>% # / means OR
select(adults, babies, children)
```

```
## # A tibble: 450 x 3
##
      adults babies children
##
       <dbl>
             <dbl>
                       <dbl>
##
  1
           1
                  0
                           2
##
   2
           1
                  0
                           2
## 3
           1
                  0
                           1
## 4
           1
                  1
                           0
## 5
           1
                  0
                           1
## 6
           1
                  0
                           1
## 7
           1
                  0
                           2
## 8
           1
                  0
                           2
```

```
## 9 1 0 1
## 10 1 0 1
## # i 440 more rows
```

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

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)

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

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

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

```
hotels %>%
  mutate(little_ones = children + babies) %>%
 filter(
   little_ones >= 1,
   hotel == "Resort Hotel"
   ) %>%
 select(hotel, little_ones)
## # A tibble: 3,929 x 2
##
   hotel little_ones
##
     <chr>
                    <dbl>
## 1 Resort Hotel
                          1
## 2 Resort Hotel
## 3 Resort Hotel
## 4 Resort Hotel
## 5 Resort Hotel
                         1
## 6 Resort Hotel
## 7 Resort Hotel
## 8 Resort Hotel
## 9 Resort Hotel
                          1
## 10 Resort Hotel
## # i 3,919 more rows
hotels %>%
 mutate(little_ones = children + babies) %>%
 filter(
   little_ones >= 1,
   hotel == "City Hotel"
   ) %>%
  select(hotel, little_ones)
## # A tibble: 5,403 x 2
## hotel little_ones
##
     <chr>
                <dbl>
## 1 City Hotel
## 2 City Hotel
## 3 City Hotel
                         2
## 4 City Hotel
                         1
## 5 City Hotel
                         1
## 6 City Hotel
                        1
## 7 City Hotel
                         1
## 8 City Hotel
                         1
## 9 City Hotel
## 10 City Hotel
## # i 5,393 more rows
```