Comprehensive Analysis of Hotel Booking Trends and Cancellation Patterns

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Introduction

This report provides a comprehensive analysis of the hotel booking dataset, examining booking trends, cancellations, and customer demographics to derive actionable insights.



Agenda

1. Introduction

- **Objective**: Define the goals of your analysis. What questions are you trying to answer or what insights are you looking for?
- **Dataset Overview**: Brief description of the dataset, including its size, columns, and general contents.

2. Data Preparation

- Load the Data: Use read.csv() or other functions to load your dataset into R.
- **Inspect the Data**: Use functions like head(), str(), and summary() to understand the structure and contents of the dataset.
- **Handle Missing Values**: Identify and address missing values using methods like imputation or removal.
- **Convert Data Types**: Ensure that all columns have the correct data types (e.g., factors, dates).
- **Feature Engineering**: Create new variables if needed (e.g., binning continuous variables).

3. Exploratory Data Analysis (EDA)

- Descriptive Statistics: Calculate summary statistics such as mean, median, and standard deviation.
- Data Visualization:
 - **Bivariate Analysis**: Use scatter plots, line charts

4. Data Analysis

- **Group Analysis**: Aggregate and summarize data based on categorical variables (e.g., total cancellations by country or market segment).
- **Trend Analysis**: Analyze trends over time if applicable (e.g., cancellation rates by month or year).
- **Comparison Analysis**: Compare different groups or categories to identify patterns or significant differences.

Overview of Dataset

- 1. Hotel: Indicates the type of hotel (e.g., "City Hotel" or "Resort Hotel").
- **2. Is_canceled**: Whether a booking was canceled (1) or not (0).
- 3. Lead_time: The number of days between the booking date and the arrival date.
- **4. Arrival_date_year**, **Arrival_date_month**, **Arrival_date_day_of_month**: Details about the arrival date.
- **5.** Stays_in_weekend_nights, Stays_in_week_nights: The number of nights stayed during the weekend and week, respectively.
- 6. Adults, Children, Babies: Number of adults, children, and babies in the booking.
- 7. Meal: Type of meal plan booked.
- **8. Country**: Country of origin of the customer.
- **9. Market_segment, Distribution_channel**: The market segment and channel through which the booking was made.
- **10. Is_repeated_guest**: Indicates if the guest is a returning customer.
- **11. Previous_cancellations, Previous_bookings_not_canceled**: Details about the guest's previous cancellations and bookings.
- **12.** Reserved_room_type, Assigned_room_type: The room types reserved and assigned.
- 13. Booking changes: Number of changes made to the booking.
- **14. Deposit_type**: The type of deposit required.
- **15. Agent, Company**: Identifiers for the booking agent or company.
- **16.** Days_in_waiting_list: Number of days the booking was on a waiting list.
- **17. Customer_type**: Type of customer (e.g., "Transient", "Group").
- **18. ADR**: Average Daily Rate, indicating the daily rate paid per room.
- **19. Required_car_parking_spaces**: Number of parking spaces required.
- **20.** Total_of_special_requests: Number of special requests made by the customer.
- **21. Reservation_status, Reservation_status_date**: The reservation's status (e.g., "Canceled", "Check-out") and the date of the status.

Import Necessary Libraries

```
library(tidyverse)
library(ggrepel)
library(dplyr)
library(forcats)
```

Load the dataset

```
df <- read.csv("D:\\DataScience-projects\\R
Project\\Dataset\\hotel_bookings.csv")</pre>
```

Display first few rows of the dataset

head(df)

```
hotel is canceled lead time arrival date year
arrival_date_month
## 1 Resort Hotel
                                   342
                                                    2015
July
## 2 Resort Hotel
                           0
                                   737
                                                    2015
July
     arrival_date_week_number arrival_date_day_of_month
stays in weekend nights
## 1
                          27
                                                     1
0
## 2
                          27
                                                     1
     stays_in_week_nights adults children babies meal country
market_segment
## 1
                                                  BB
                                                         PRT
Direct
                          2
                                       0 0
## 2
                                                  BB
                                                         PRT
Direct
     distribution_channel is_repeated_guest previous_cancellations
## 1
                  Direct
                                         0
                                                                0
## 2
                                         0
                                                                0
                  Direct
```

```
previous_bookings_not_canceled reserved_room_type
assigned room type
## 1
                                                     C
C
## 2
                                  0
                                                     C
C
     booking changes deposit type agent company days in waiting list
customer_type
                       No Deposit NULL
## 1
                   3
                                           NULL
                                                                   0
Transient
## 2
                       No Deposit NULL
                                           NULL
                                                                   0
Transient
     adr required_car_parking_spaces total_of_special_requests
reservation status
## 1
                                   0
                                                             0
Check-Out
                                   0
                                                             0
## 2 0
Check-Out
     reservation_status_date
                  2015-07-01
## 1
## 2
                  2015-07-01
```

Dataset dimensions

```
cat("Number of rows:",nrow(df))
## Number of rows: 119390
cat("Number of columns:",ncol(df))
## Number of columns: 32
```

Summary of columns

```
str(df)
```

```
## $ arrival_date_week_number
                                : int 27 27 27 27 27 27 27 27 27
27 ...
## $ arrival_date_day_of_month
## $ stays_in_weekend_nights
## $ stays_in_week_nights
                                : int 111111111...
                                : int 0000000000...
                                : int 001122233 ...
## $ adults
                               : int 2211222222...
## $ children
                               : int 0000000000...
                              : int 00000000000...
: chr "BB" "BB" "BB" "BB" ...
: chr "PRT" "PRT" "GBR" "GBR"
## $ babies
## $ meal
## $ country
                                       "PRT" "PRT" "GBR" "GBR"
                              : chr "Direct" "Direct" "Direct"
## $ market_segment
"Corporate" ...
## $ distribution_channel : chr "Direct" "Direct"
"Corporate" ...
## $ previous_bookings_not_canceled: int 00000000000...
## $ booking_changes
                               : chr "No Deposit" "No Deposit"
## $ deposit_type
## $ deposit_type
"No Deposit" "No Deposit" ...
## $ agent
                                : chr
                                       "NULL" "NULL" "304"
                                       "NULL" "NULL" "NULL"
## $ company
                                : chr
. . .
## $ days_in_waiting_list : int
                                       0000000000...
                                : chr "Transient" "Transient"
## $ customer_type
"Transient" "Transient" ...
                                : num 0 0 75 75 98 ...
## $ adr
## $ required_car_parking_spaces : int 0000000000...
## $ total_of_special_requests : int 0 0 0 0 1 1 0 1 1 0 ...
## $ reservation status : chr "Check-Out" "Check-Out"
                                : chr "Check-Out" "Check-Out"
## $ reservation_status
"Check-Out" "Check-Out" ...
## $ reservation status date : chr "2015-07-01" "2015-07-01"
"2015-07-02" "2015-07-02" ...
```

Convert date column to date type

```
df$reservation_status_date <-
as.Date(df$reservation_status_date,format="%Y-%m-%d")</pre>
```

Check for missing values

```
missing_values <- sapply(df, function(x) sum(is.na(x)))</pre>
missing_values
##
                              hotel
                                                         is_canceled
##
                                  0
                                                                    0
##
                          lead_time
                                                   arrival_date_year
##
##
                arrival date month
                                           arrival date week number
##
                                                                    0
        arrival_date_day_of_month
                                            stays_in_weekend_nights
##
##
##
              stays_in_week_nights
                                                               adults
##
##
                           children
                                                               babies
##
##
                               meal
                                                              country
##
                                  0
                                                                    0
##
                    market_segment
                                               distribution_channel
##
##
                 is_repeated_guest
                                             previous_cancellations
##
   previous_bookings_not_canceled
                                                  reserved room type
##
                                                                    0
##
                assigned_room_type
                                                     booking_changes
##
                                                                    0
##
                      deposit_type
                                                                agent
##
                                                                    0
##
                                               days_in_waiting_list
                            company
##
##
                     customer_type
                                                                  adr
##
##
      required car parking spaces
                                          total of special requests
                                  0
##
##
                reservation_status
                                            reservation_status_date
##
```

Clean column names

```
df <- df %>% rename_all(~ str_replace_all(.," ","_"))
names(df)
    [1] "hotel"
##
                                           "is canceled"
    [3] "lead_time"
                                           "arrival_date_year"
    [5] "arrival_date_month"
                                           "arrival date week number"
                                           "stays_in_weekend_nights"
##
        "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"
## [27] "customer_type"
                                          "adr"
## [29] "required_car_parking_spaces"
                                          "total_of_special_requests"
## [31] "reservation status"
                                          "reservation status date"
```

Summary statistics for numerical columns

```
summary(df %>% select(lead_time, stays_in_weekend_nights,
stays_in_week_nights, adr))
##
      lead_time
                  stays_in_weekend_nights stays_in_week_nights
                                                                    adr
                  Min. : 0.0000
## Min. : 0
                                          Min. : 0.0
                                                               Min.
-6.38
## 1st Qu.: 18
                  1st Qu.: 0.0000
                                          1st Qu.: 1.0
                                                               1st Qu.:
69.29
## Median : 69
                  Median : 1.0000
                                          Median : 2.0
                                                               Median :
94.58
## Mean :104
                  Mean
                         : 0.9276
                                          Mean
                                                 : 2.5
                                                               Mean
101.83
                  3rd Qu.: 2.0000
## 3rd Qu.:160
                                          3rd Qu.: 3.0
                                                               3rd Qu.:
126.00
## Max.
           :737
                  Max.
                         :19.0000
                                          Max.
                                                 :50.0
                                                               Max.
:5400.00
```

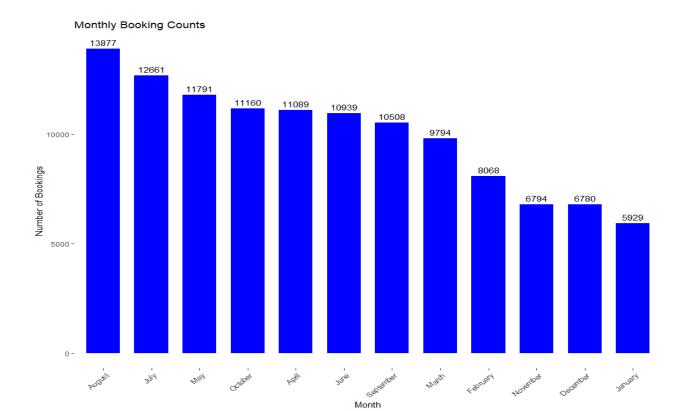
Distribution of cancellation

```
table(df$is_canceled)
##
## 0 1
## 75166 44224
```

Booking Trends

1. Is there a seasonal trend in the booking patterns?

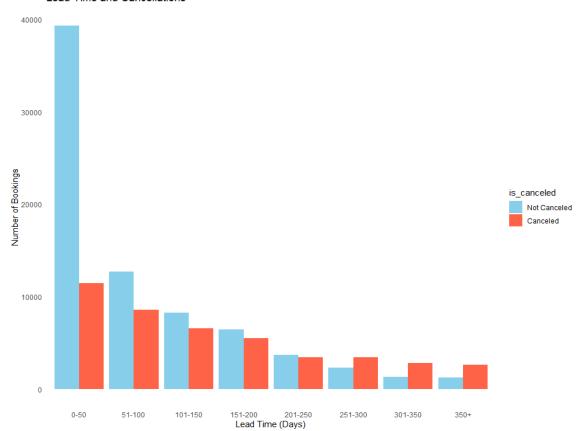
```
library(ggplot2)
library(dplyr)
monthly booking <- df %>%
  group_by(arrival_date_month) %>%
  summarize(booking count = n()) %>%
  mutate(arrival_date_month = fct_reorder(arrival_date_month,
booking_count, .desc = TRUE))
ggplot(monthly_booking, aes(x = arrival_date_month, y = booking_count))
geom_bar(stat = "identity", fill = "blue", width = 0.7) +
geom text(aes(label = booking count), vjust = -0.5) +
labs(title = "Monthly Booking Counts", x = "Month", y = "Number of
Bookings") +
  theme(
    axis.text.x = element_text(angle = 45, hjust = 1, vjust = 1),
    panel.background = element_blank(),
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    plot.background = element blank(),
    plot.margin = margin(t = 10, r = 10, b = 10, l = 10)
```



2. Does the booking cancellation rate increase as the lead time increases?

```
df$is canceled <- factor(df$is canceled, levels = c(0, 1), labels =</pre>
c("Not Canceled", "Canceled"))
df <- df %>%
  mutate(lead_time_bins = cut(lead_time,
          breaks = c(0, 50, 100, 150, 200, 250, 300, 350, Inf),
          labels = c("0-50", "51-100", "101-150", "151-200", "201-250",
"251-300", "301-350", "350+"),
       include.lowest = TRUE))
ggplot(df, aes(x = lead_time_bins, fill = is_canceled)) +
  geom_bar(position = "dodge") +
  labs(title = "Lead Time and Cancellations",
       x = "Lead Time (Days)",
       y = "Number of Bookings") +
  scale_fill_manual(values = c("Not Canceled" = "skyblue", "Canceled" =
"tomato")) +
  theme minimal() +
 theme(panel.grid = element_blank())
```

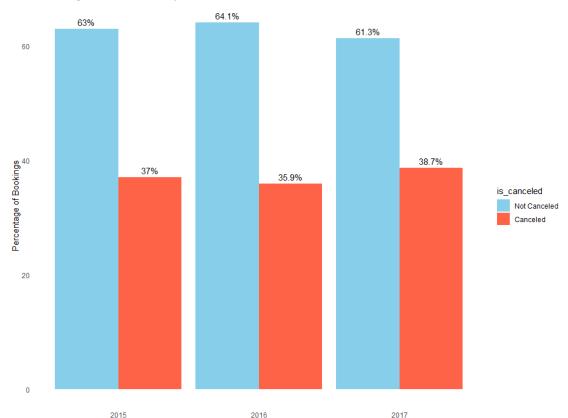
Lead Time and Cancellations



3. How does the percentage of cancellations vary by arrival vear?

```
df$is_canceled <- factor(df$is_canceled, levels = c(0, 1), labels =</pre>
c("Not Canceled", "Canceled"))
summary_df <- df %>%
  group_by(arrival_date_year, is_canceled) %>%
  summarise(count = n(), .groups = 'drop') %>%
  group by(arrival date year) %>%
  mutate(percentage = count / sum(count) * 100)
ggplot(summary_df, aes(x = factor(arrival_date_year), y = percentage,
fill = is canceled)) +
  geom bar(stat = "identity", position = "dodge") +
  geom text(aes(label = paste0(round(percentage, 1), "%")),
            position = position_dodge(width = 0.9),
            viust = -0.5) +
  labs(title = "Percentage of Cancellations by Arrival Year",
       x = "Arrival Year",
       v = "Percentage of Bookings") +
  scale fill manual(values = c("Not Canceled" = "skyblue", "Canceled" =
"tomato")) +
  theme minimal()+
 theme(panel.grid = element blank())
```

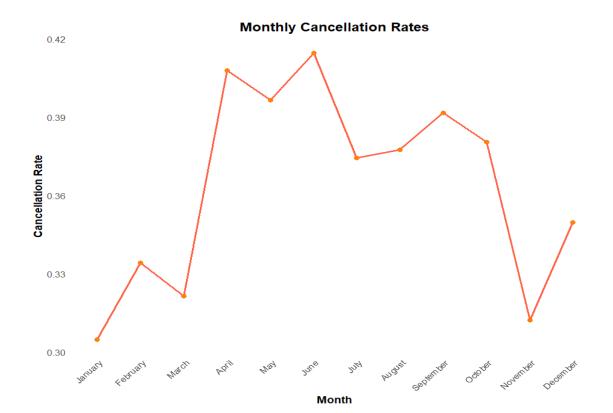
Percentage of Cancellations by Arrival Year



Arrival Year

4. How has the cancellation rate changed over the months?

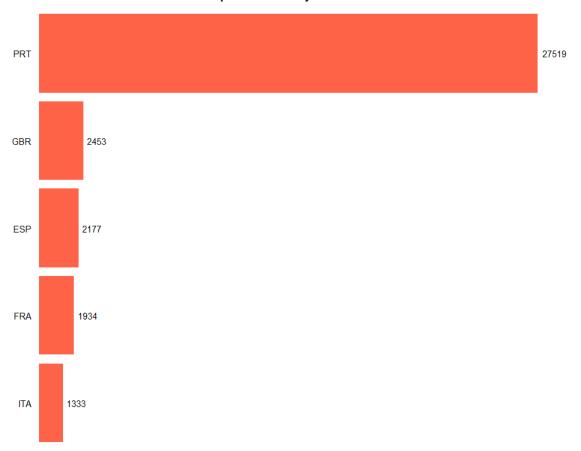
```
df$arrival date month <- factor(df$arrival date month,
           levels = c("January", "February", "March", "April", "May",
                      "June", "July", "August", "September", "October",
                                           "November", "December"))
cancellation rates <- df %>%
  group_by(arrival_date_month) %>%
  summarize(cancellation_rate = mean(is_canceled), .groups = 'drop')
%>%
  filter(!is.na(cancellation rate))
ggplot(cancellation_rates, aes(x = arrival_date_month, y =
cancellation_rate, group = 1)) +
  geom_line(color = "tomato", linewidth = 1.2) +
  geom_point(color = "#ff7f0e", size = 3) +
  labs(x = "Month", y = "Cancellation Rate", title = "Monthly
Cancellation Rates") +
  theme minimal(base size = 15) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1),
        plot.title = element_text(hjust = 0.5, size = 18, face="bold"),
        axis.title = element_text(size = 14, face = "bold"),
        axis.text = element_text(size = 12),
       panel.grid.major = element blank(),
        panel.grid.minor = element_blank())
```



5. Which countries have the highest number of cancellations

```
df$is_canceled <- as.numeric(as.character(df$is_canceled))</pre>
agg_data <- df %>%
  group_by(country) %>%
  summarise(total cancellations = sum(is canceled, na.rm = TRUE)) %>%
  slice max(total cancellations, n = 5)
ggplot(agg_data, aes(x = total_cancellations, y = reorder(country,
total cancellations))) +
  geom bar(stat = "identity", fill = "tomato") +
  geom_text(aes(label = total_cancellations), hjust = -0.2, color =
"black") +
  labs(x = "Total Cancellations", y = "Country", title = "Top 5
Countries by Total Cancellations") +
  theme void() +
  theme(
    axis.text.y = element_text(angle = 0, hjust = 1, margin = margin(r
= 10)),
    plot.title = element text(hjust = 0.5, face = "bold", size = 14)
  ) +
scale_x_continuous(expand = expansion(mult = c(0, 0.1)))
```

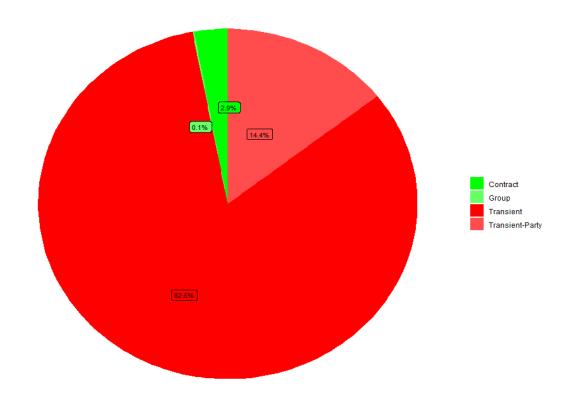
Top 5 Countries by Total Cancellations



6. Is there a customer type that consistently avoids cancellations?

```
agg data <- df %>%
  group by(customer type) %>%
  summarise(total_cancellations = sum(is_canceled, na.rm = TRUE)) %>%
  mutate(percentage = total_cancellations / sum(total_cancellations) *
100, label = paste0(round(percentage, 1), "%"))
custom_colors <- c("Contract" = "#00ff00",</pre>
                   "Group" = "#66FF66",
                   "Transient" = "red",
                   "Transient-Party" = "#FF4C4C")
ggplot(agg_data, aes(x = "", y = percentage, fill = customer_type)) +
  geom_bar(stat = "identity", width = 1) +
  coord_polar(theta = "y") +
  labs(x = NULL, y = NULL, title = "Cancellation Distribution by
Customer Type") +
  theme void() +
  theme(legend.title = element_blank()) +
  geom_label_repel(aes(label = label), position = position_stack(vjust
= 0.5), size = 3, show.legend = FALSE) +
scale fill manual(values = custom colors)
```

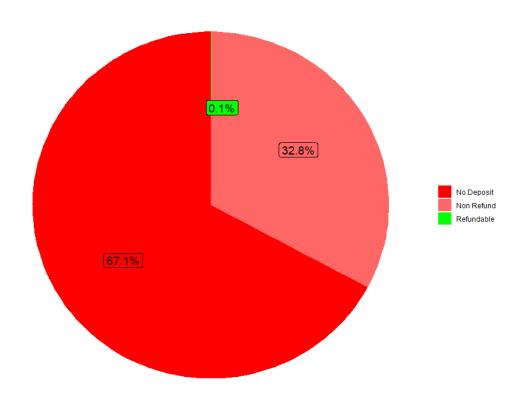
Cancellation Distribution by Customer Type



7. How does the deposit policy affect cancellation behavior?

```
agg_data <- df %>%
  group by(deposit type) %>%
  summarise(total_cancellations = sum(is_canceled, na.rm = TRUE)) %>%
  mutate(percentage = total_cancellations / sum(total_cancellations) *
100, label = paste0(round(percentage, 1), "%"))
custom_colors <- c("No Deposit" = "red",</pre>
                   "Non Refund" = "#FF6666",
                   "Refundable" = "green")
ggplot(agg_data, aes(x = "", y = percentage, fill = deposit_type)) +
  geom_bar(stat = "identity", width = 1) +
  coord polar(theta = "y") +
  labs(x = NULL, y = NULL, title = "Cancellation Distribution by
Deposit Type") +
  theme void() +
  theme(legend.title = element_blank()) +
  geom_label_repel(aes(label = label), position = position_stack(vjust
= 0.5), size = 5, show.legend = FALSE) +
scale_fill_manual(values = custom_colors)
```

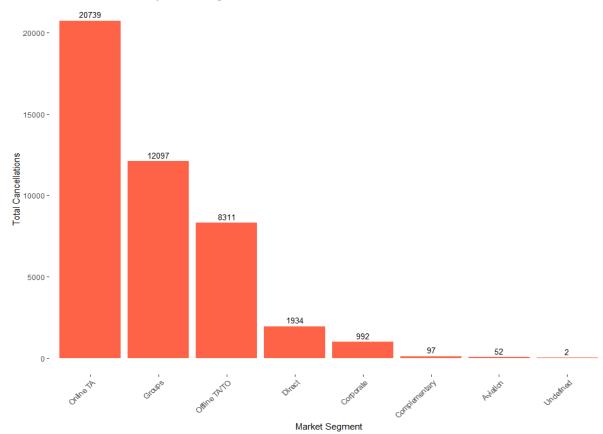
Cancellation Distribution by Deposit Type



8. How do different market segments compare in terms of cancellation rates?

```
agg data <- df %>%
  group_by(market_segment) %>%
  summarise(total_cancellations = sum(is_canceled, na.rm = TRUE))
ggplot(agg_data, aes(x = reorder(market_segment, -total_cancellations),
y = total cancellations)) +
  geom_bar(stat = "identity", fill = "tomato") +
  geom text(aes(label = total cancellations), vjust = -0.5, size = 3.5)
  labs(x = "Market Segment", y = "Total Cancellations", title = "Total
Cancellations by Market Segment") +
  theme(
    axis.text.x = element text(angle = 45, hjust = 1),
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    panel.background = element_blank(),
    plot.background = element blank()
)
```

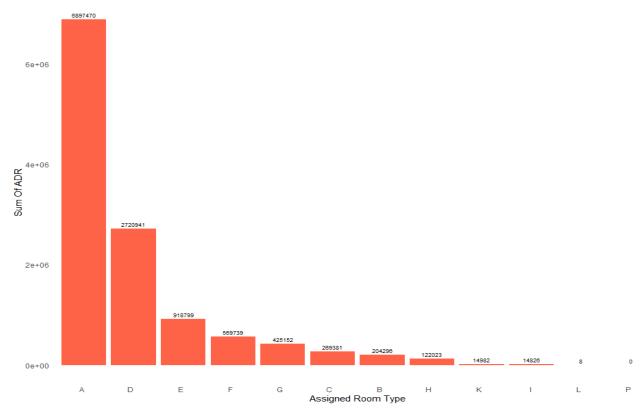
Total Cancellations by Market Segment



9. Which assigned room type generates the highest sum of ADR?

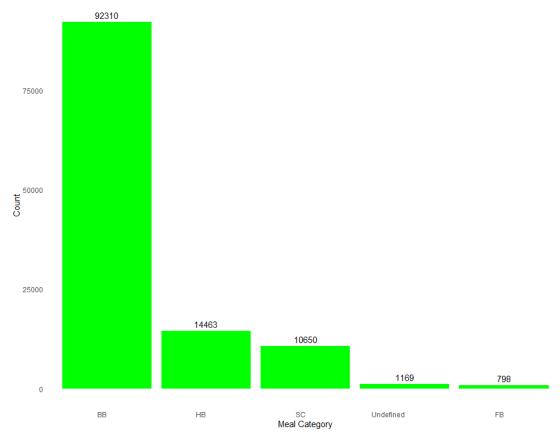
```
agg data <- df %>%
  group by(assigned room type) %>%
  summarise(average adr = sum(adr, na.rm = TRUE))
agg_data <- df %>%
  group_by(assigned_room_type) %>%
  summarise(average_adr = sum(adr, na.rm = TRUE))
ggplot(agg_data, aes(x = reorder(assigned_room_type, -average_adr), y =
average adr)) +
  geom_bar(stat = "identity", fill = "tomato", width = 0.9) +
  geom text(aes(label = round(average adr, 0)), vjust = -0.5, size =
2.5) +
  labs(x = "Assigned Room Type", y = "Sum Of ADR", title = "Average")
Daily Rate (ADR) by Assigned Room Type") +
  theme minimal() +
  theme(
    axis.text.x = element text(hjust = 1),
    panel.grid.major = element blank(),
    panel.grid.minor = element_blank(),
    panel.background = element_blank(),
    plot.background = element blank()
  )
```

Average Daily Rate (ADR) by Assigned Room Type



10. Which meal category is the most frequently selected?

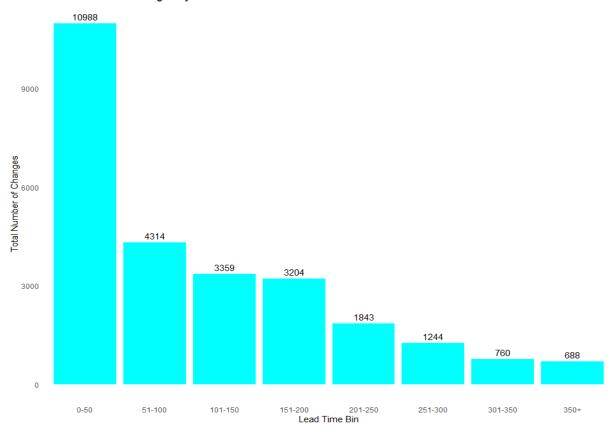
Distribution of Meal Categories



11. How does the total number of booking changes vary across different lead time bins?

```
df <- df %>%
   mutate(lead time bin = cut(lead time,
   breaks = c(0, 50, 100, 150, 200, 250, 300, 350, Inf),
   labels = c("0-50", "51-100", "101-150", "151-200", "201-250",
"251-300", "301-350", "350+"),
       include.lowest = TRUE))
agg data10 <- df %>%
  group by(lead time bin) %>%
  summarise(total changes = sum(booking changes, na.rm = TRUE))
ggplot(agg_data10, aes(x = lead_time_bin, y = total_changes)) +
  geom_bar(stat = "identity", fill = "#00FFFF") +
  geom text(aes(label = total changes), vjust = -0.5) +
  labs(x = "Lead Time Bin", y = "Total Number of Changes", title =
"Total Number of Changes by Lead Time Bin") +
  theme minimal() +
  theme(axis.text.x = element text(hjust = 0.5),
        panel.grid.major = element_blank(),
        panel.grid.minor = element blank(),
        panel.background = element_blank(),
        plot.background = element blank())
```

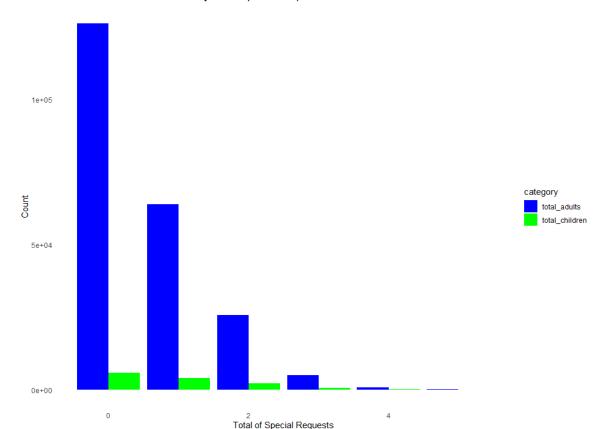
Total Number of Changes by Lead Time Bin



12. How does the number of special requests relate to the number of adults and children?

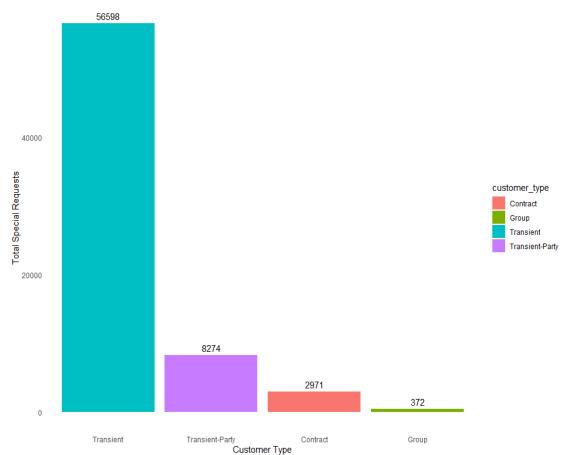
```
agg data <- df %>%
  group_by(total_of_special_requests) %>%
  summarise(
    total_adults = sum(adults, na.rm = TRUE),
    total_children = sum(children, na.rm = TRUE)
  )
agg_data_long <- agg_data %>%
  pivot_longer(cols = c(total_adults, total_children),
               names_to = "category",
               values_to = "count")
ggplot(agg_data_long, aes(x = total_of_special_requests, y = count,
fill = category)) +
  geom_bar(stat = "identity", position = "dodge") +
  labs(x = "Total of Special Requests", y = "Count", title = "Count of
Adults and Children by Total Special Requests") +
  scale_fill_manual(values = c("blue", "green")) +
  theme_minimal() +
 theme(
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank()
 )
```

Count of Adults and Children by Total Special Requests



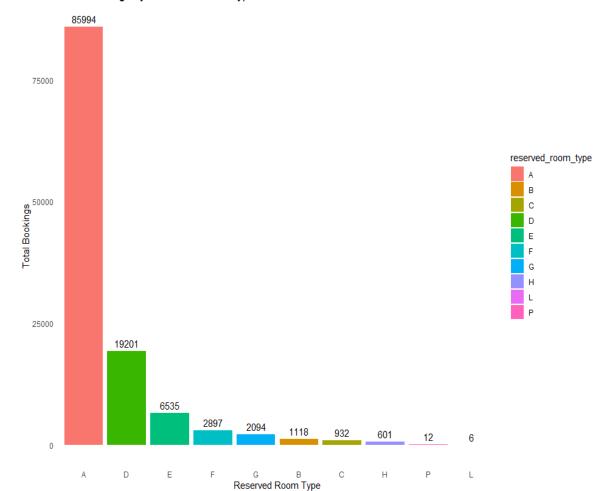
13. Which customer type makes the highest number of special requests?

Total Special Requests by Customer Type



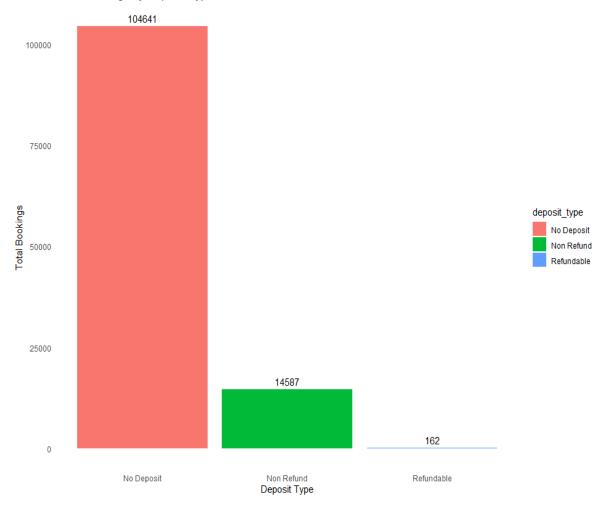
14. Which reserved room type has the highest number of bookings?

Total Bookings by Reserved Room Type



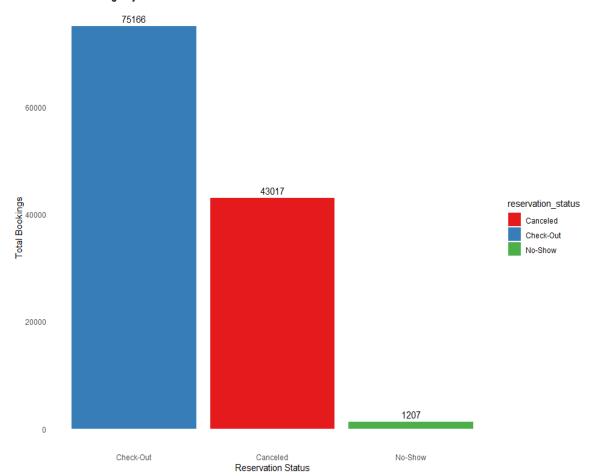
15. Which deposit type is associated with the highest number of bookings?

Total Bookings by Deposit Type



16. Which reservation status category has the highest number of bookings?

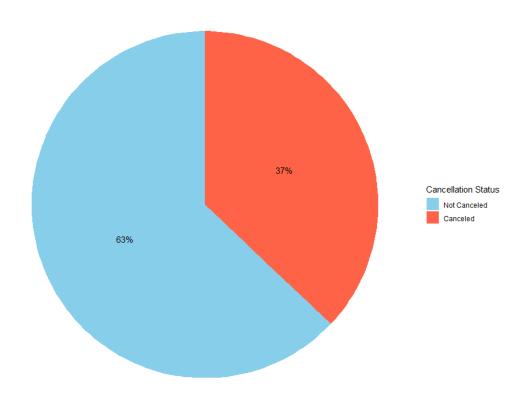
Total Bookings by Reservation Status



17. What percentage of total bookings are canceled versus not canceled?

```
agg data <- df %>%
  group_by(is_canceled) %>%
  summarise(total_bookings = n()) %>%
  mutate(percentage = total_bookings / sum(total_bookings) * 100,
         is_canceled_label = factor(is_canceled, levels = c(0, 1),
labels = c("Not Canceled", "Canceled")))
ggplot(agg_data, aes(x = "", y = percentage, fill = is_canceled_label))
 geom bar(stat = "identity", width = 1) +
 coord_polar("y") +
 geom_text(aes(label = paste0(round(percentage, 1), "%")), position =
position_stack(vjust = 0.5)) +
  labs(title = "Booking Cancellations", fill = "Cancellation Status") +
  theme void() +
 theme(legend.position = "right") +
  scale_fill_manual(values = c("Not Canceled" = "skyblue", "Canceled" =
"tomato"))
```

Booking Cancellations



Conclusion for the Hotel Bookings Data Analysis

After performing a detailed analysis of the hotel bookings dataset, the following key insights have emerged

Cancellation Patterns

A significant portion of bookings were canceled, highlighting a potential issue with booking reliability. Understanding the reasons behind cancellations (e.g., long lead times or booking policies) could help in mitigating future cancellations. The cancellation rate fluctuates across different years, with certain years showing a higher tendency for cancellations. This trend may be influenced by external factors such as economic conditions or travel restrictions.

Lead Time Impact

Bookings with longer lead times (more days between booking and arrival) have a higher likelihood of being canceled. The majority of cancellations happen when the lead time is beyond 100 days. This suggests that people who book further in advance are more likely to cancel. Conversely, bookings with shorter lead times (e.g., less than 50 days) show fewer cancellations, indicating that last-minute bookings tend to be more reliable.

Seasonality of Cancellations

The month of arrival has a noticeable impact on cancellation rates. Certain months, particularly the peak vacation seasons (e.g., July and August), show higher cancellation rates. This could be due to overbooking or fluctuating vacation plans. Hotels might benefit from implementing more flexible booking or cancellation policies during these high-cancellation periods to reduce booking loss.

Impact of Hotel Type

Resort hotels experience higher lead times and slightly higher cancellation rates compared to city hotels. This is likely because resort bookings are made well in advance for holidays or special events, which are more prone to cancellation as plans change. City hotels tend to attract more last-minute bookings, leading to lower cancellation rates and quicker turnover of rooms.

Yearly Booking Trends

The number of bookings has grown consistently over the years, indicating increasing popularity or market demand for these hotels. Despite this growth, the proportion of cancellations has remained relatively stable, suggesting that the hotels are maintaining a balance between their booking and cancellation rates over time.

Recommendations

Cancellation Policy Adjustments

Consider offering incentives for early bookings with shorter lead times or penalties for cancellations closer to the booking date. Flexible booking options could help reduce cancellations while maintaining customer satisfaction. Marketing Strategies: Target customers who tend to make last-minute bookings, especially during offpeak months, to improve occupancy rates and reduce reliance on bookings with long lead times.

Seasonal Preparations

Be proactive in adjusting pricing and availability during high-cancellation periods such as summer holidays. Overbooking strategies or stricter cancellation policies may be necessary during these months to avoid revenue loss.