**Business Problem**

In recent year, City Hotel and Resort Hotel Have seen high Cancellation rates. Each hotel is now dealing with a number of issues as a result, including fewer revenues and less than ideal hotel room use. Consequently, lowering cancellation rates is both hotel’s primary goal in order to increase their efficiency in generating revenue, and for us to offer through business advice to address this problem.

The analysis of hotel booking cancellation as well other factors that have no bearing on their business and yearly revenue generation are the main topic of this report.



**Hotel Booking**

**Assumptions**

1. No unusual occurrences between 2015 and 2017 will have a substantial impact on the data used.
2. The information is still current and can be used to analyse a hotel’s possible plans in an efficient manner.
3. There are no unanticipated negatives to the hotel employing any advised technique.
4. The hotel are not currently using any of the suggested solution.
5. The biggest factor affecting the effectiveness of earning income is booking cancellations.
6. Cancellations result in vacant room for the booked length of time.
7. Clients make hotel reservations the same year they make cancellations.

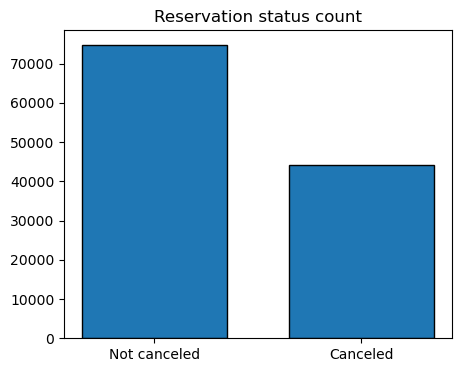
**Research Question**

1. What are the variables that affect hotel reservation cancellations?
2. How can we make hotel reservations cancellations better?
3. How will hotel be assisted in making pricing and promotional decisions?

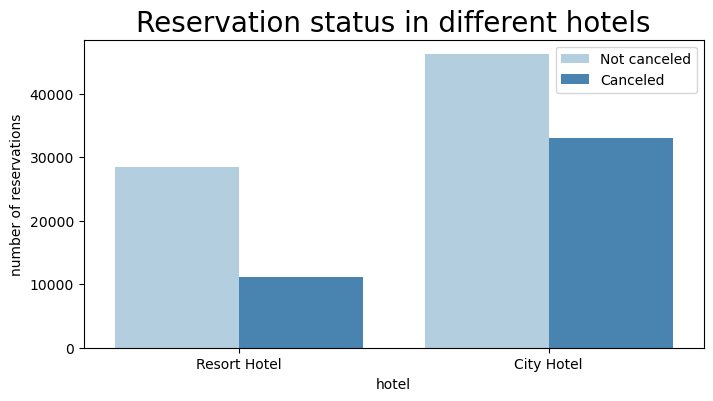
**Hypothesis**

1. More Cancellations Occur when prices are higher.
2. When there is a longer wating list, customers tend to cancel more frequently.
3. The Majority of clients are coming from offline travel agents to make their reservations.

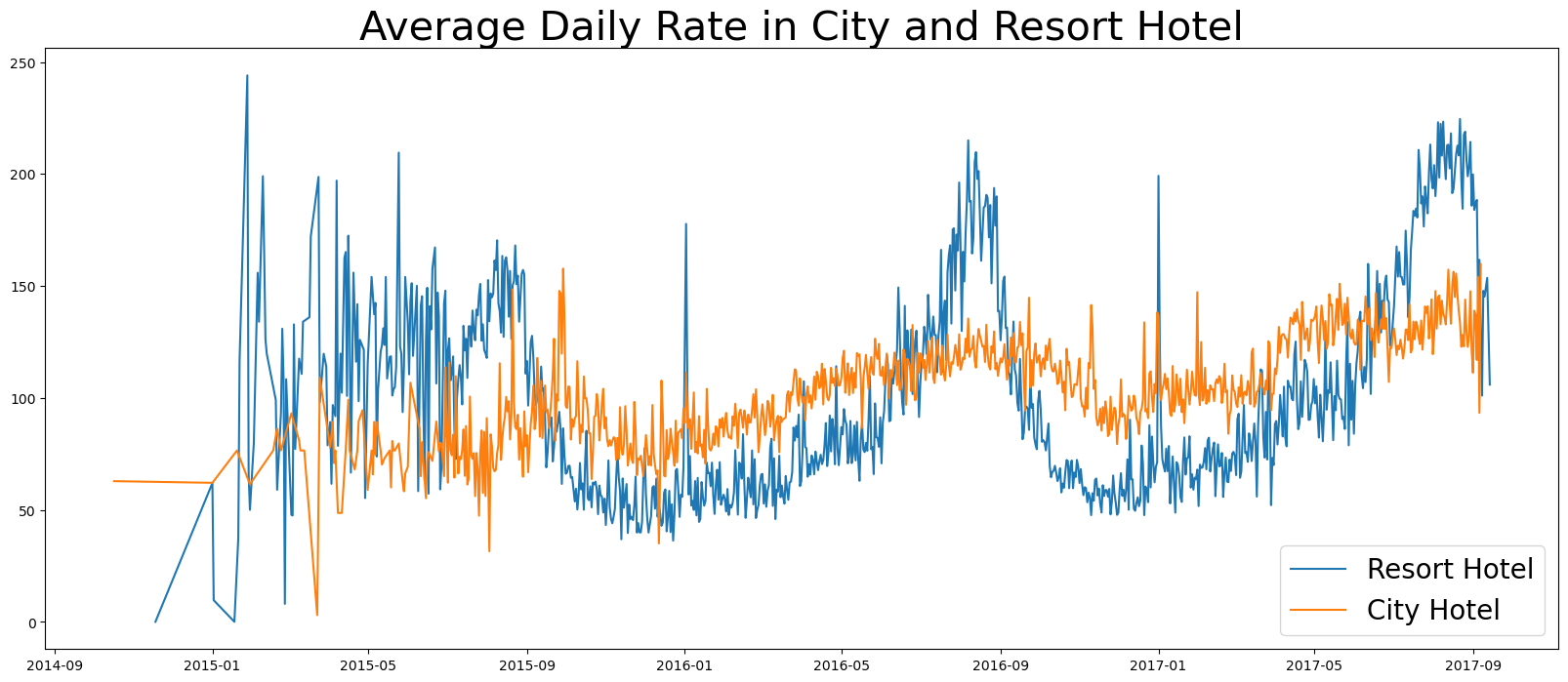
**Analysis and Findings**



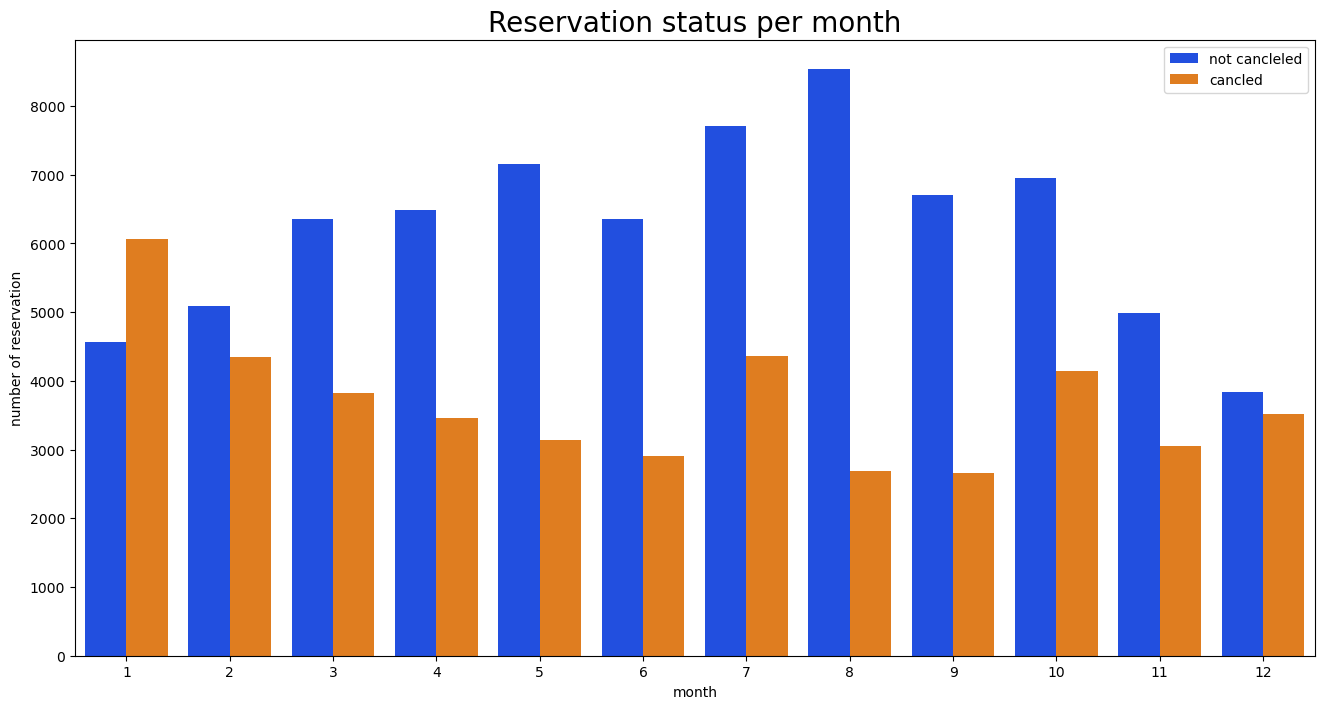
The accompanying bar graph shows the percentage of reservations that are cancelled and those that are not. It is obvious that there are still a significant number of reservations that have not been cancelled. There are still 37% of clients who cancelled their reservation, which has a significant impact on the hostel’s earnings.



In comparison to resort hotels, city hotels have more bookings. It’s possible that resort hotels are more expensive than those in cities.



The line graph above shows that, on certain days, the average daily rate for a city hotel is less than that of a resort hotel, and on other days, it is even less. It goes without saying that weekends and holidays may see a rise in resort hotel rates.



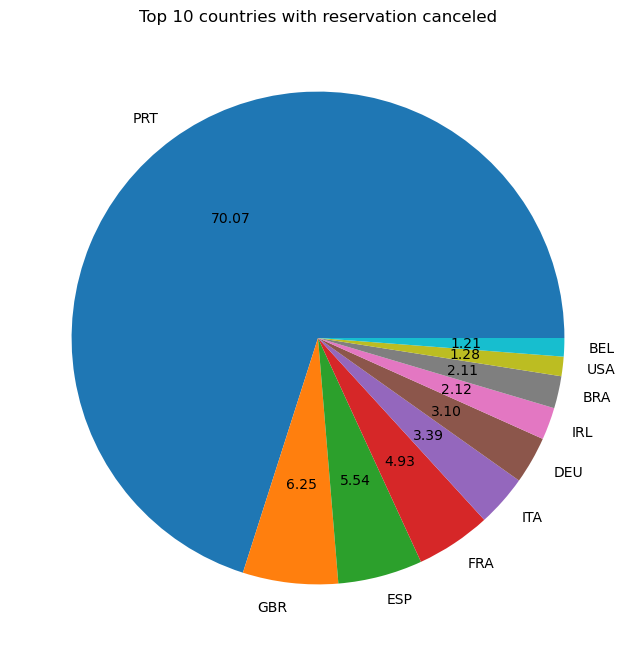
We have developed the groups bar graph to analyse the months with the highest and lowest reservation levels according to reservation status. As can be seen, both the number of confirmed reservations and the number of cancelled reservations is largest in the month of august. Whereas January is the most cancelled reservation.

A graph of different colored bars

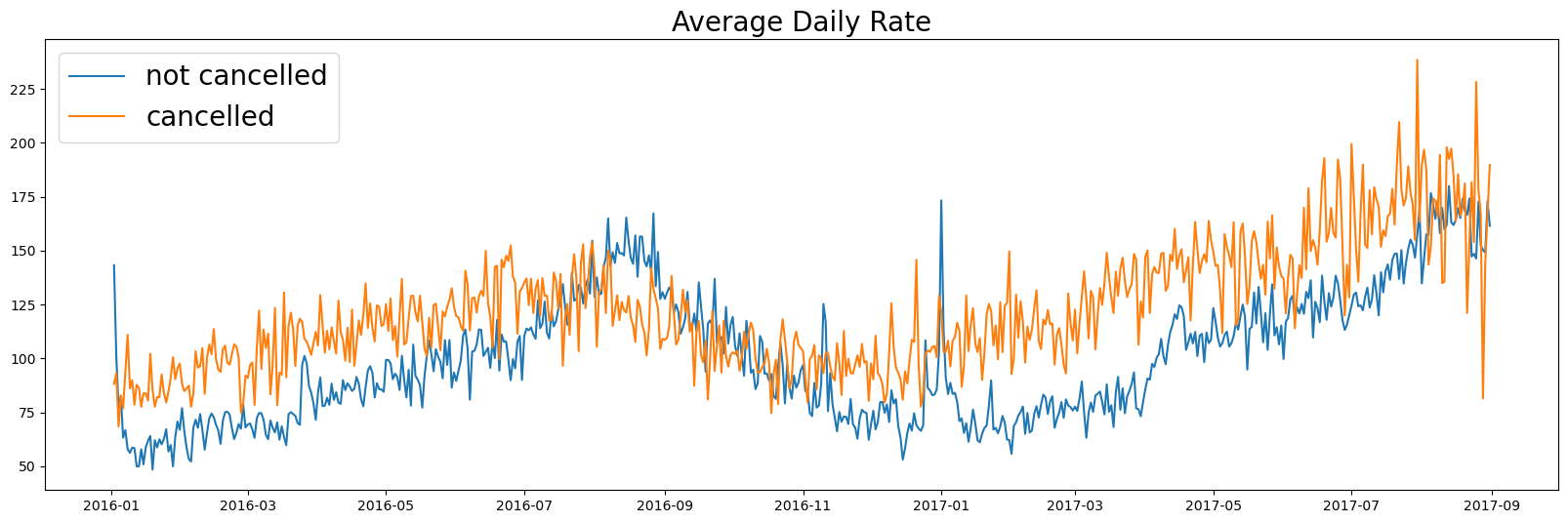
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This bar graph demonstrates that cancellations are most common when prices are greatest and are least common when they are lowest. Therefore, the cost of the accommodation is solely responsible for the cancellation.

Now, let’s see which country has the highest reservation cancelled. The top country is Portugal with the highest number of cancellations.



Let’s check the area from where guests are visiting the hotels and making reservations.It is coming from Direct of Groups, Online or Offline Travel Agents? Around 46% of the clients come from online travel agencies, whereas 27% come from groups. Only 4% of clients book hotels directly by visiting them and making reservations.



As seen in the graph, reservations are cancelled when the average daily rate is higher than when it is not cancelled. It clearly proves all the above analysis, that the higher price lead to higher cancellation.

**Suggestions**

1. Cancellations rates rise as the prices does. In order to prevent cancellations of reservations, hotels could work on their pricing strategies and try to lower the rates for specifies hotels based on locations. They can also provide some discounts to the consumers.
2. As the ratio of the cancellations and not cancellations of the resort hotel is higher in the resort hotel than the city hotels. So, the hotel should provide a reasonable discount on the room prices on weekends or on holidays.
3. In the month of January, Hotels can start campaigns or marketing with a reasonable amount to increase their revenue as the cancellation is the highest in this month.
4. They can also increase the quality of their hotels and their services mainly in Portugal to reduce the cancellation rate.