**RESEARCH QUESTIONS**

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

**HYPOTHESIS**

1. More cancellations occur when prices are higher.
2. When there is a longer waiting list customers tend to cancel more frequently.
3. Most clients come from offline travel agents to make their reservations.

**ANALYSIS AND FINDINGS**

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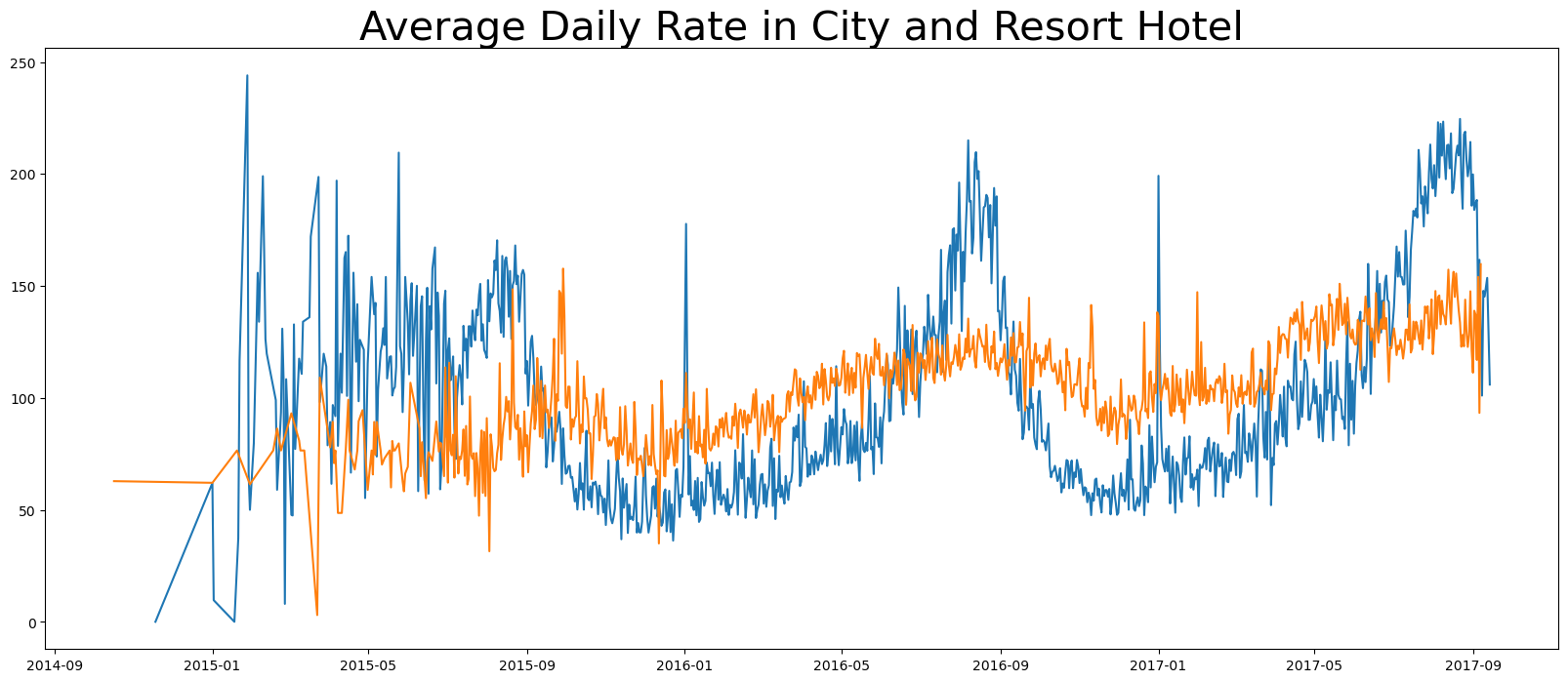
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The accompanying bar graph shows the percentage of reservations that are cancelled and those that are not. It is obvious that there are still a significant number of reservations that have not been cancelled. There are still 37% of clients who cancelled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

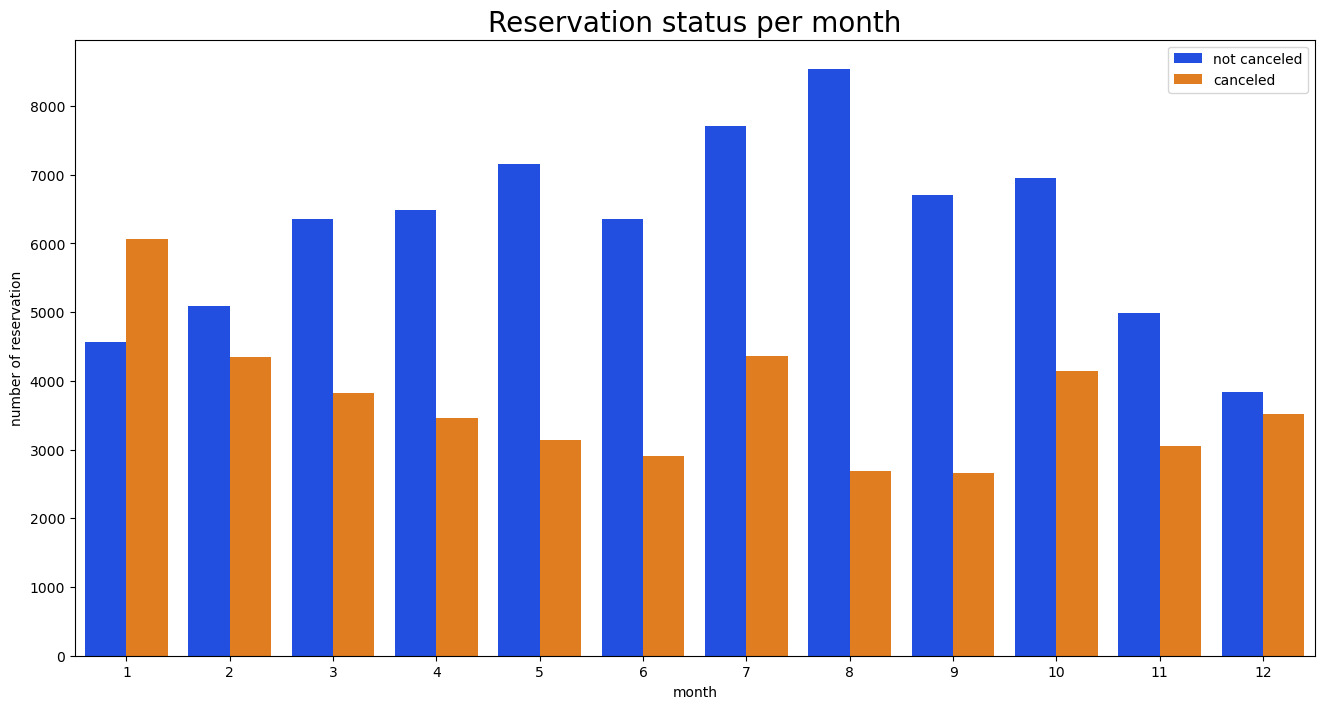
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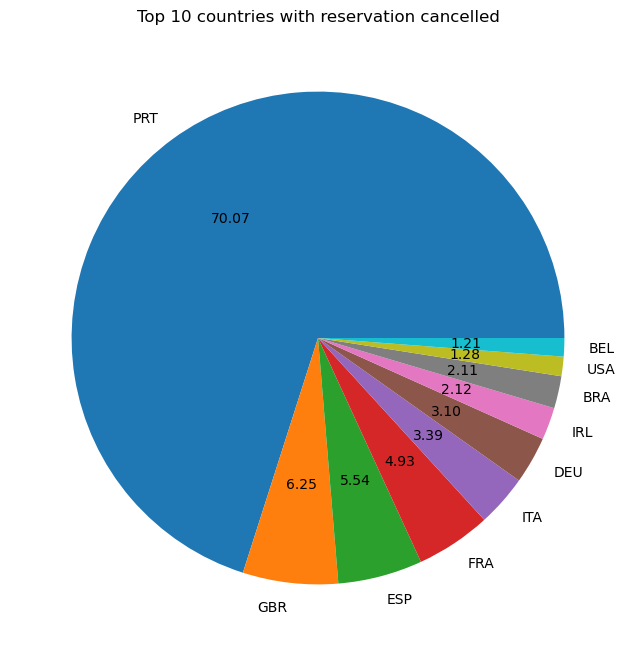
In comparison to resort hotels, city hotels have more bookings. It’s possible that resort hotels are more expensive than those in cities.



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’s even less. It goes without saying that weekends and holidays may see a rise in resort hotel rates.



We have developed the grouped bar graph to analyze the months with the highest and lowest reservation status. As can be seen, both the number of confirmed reservations and the number of cancelled reservations are the largest in the month of August. Whereas January is the month with the most cancelled reservations.



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. Is it coming from Direct or 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.

A graph of blue and orange lines

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As seen in the graph, reservations are cancelled when the average daily rate is higher then when it is not cancelled. It clearly proves all the above analysis that the higher price leads to the highest cancellations.

**SUGGESTIONS**

1. Cancellation rates rise as the price does. In order to prevent cancellations of reservations, hotels could work on their pricing strategies and try to lower the rates for specific hotels based on location. They can also provide some discounts to the customers.
2. As the ratio of cancellation and not cancellation of the resort hotel is higher in the resort hotel than the city hotels. So, the hotels 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.