chool of Information Studies, Syracuse Univers

Recipe of a cancelled booking?

ANALYSIS OF HOTEL BOOKINGS DATASET





WHY IS THIS IMPORTANT?

Cancelations means you no more get paid. It steals you from the opportunity to serve your guest.

Which also means total revenue is affected.

SCOPE OF THIS PROJECT

Find the trends in cancelations and develop insights which can lead to actions that reduce cancelation.

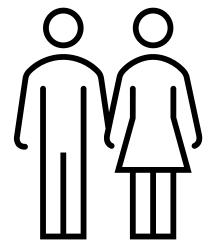
What's in the dataset

The dataset contains information of 40060 bookings

There are 20 attributes

After removing illegal bookings there were 39666 bookings









70%

2 MEMBERS

17%

SOLO

13%

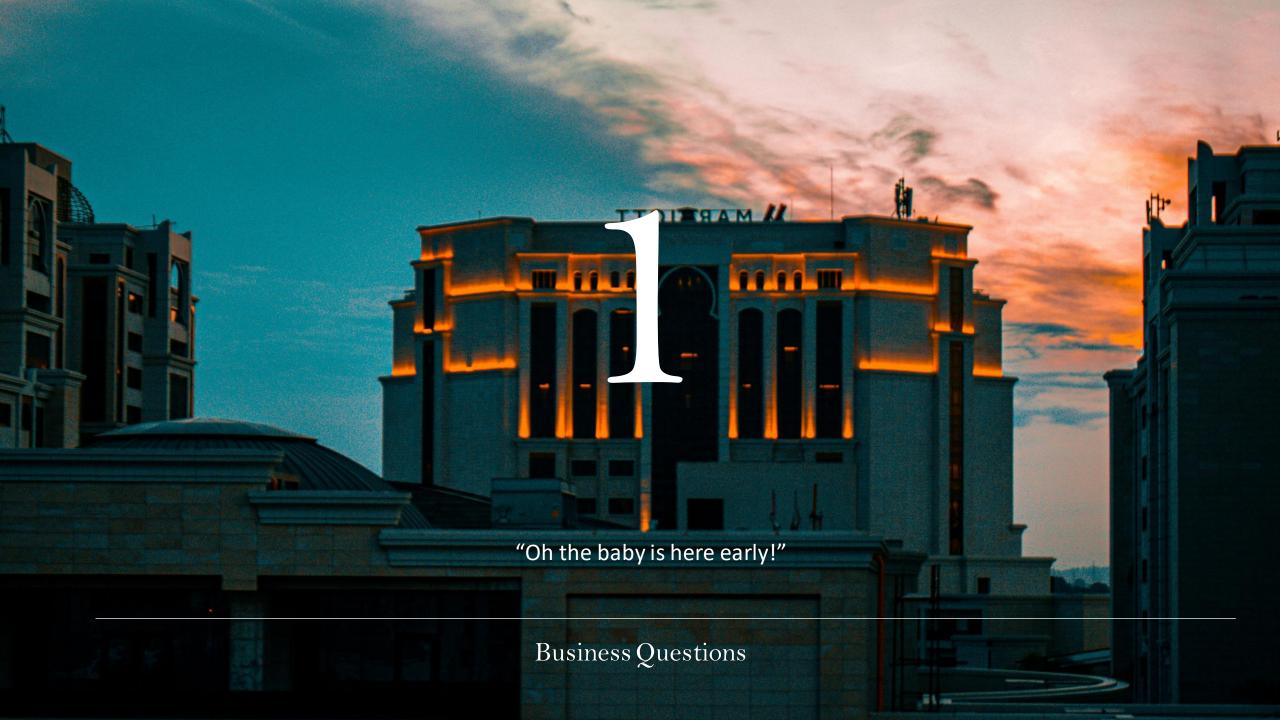
3+ MEMBERS

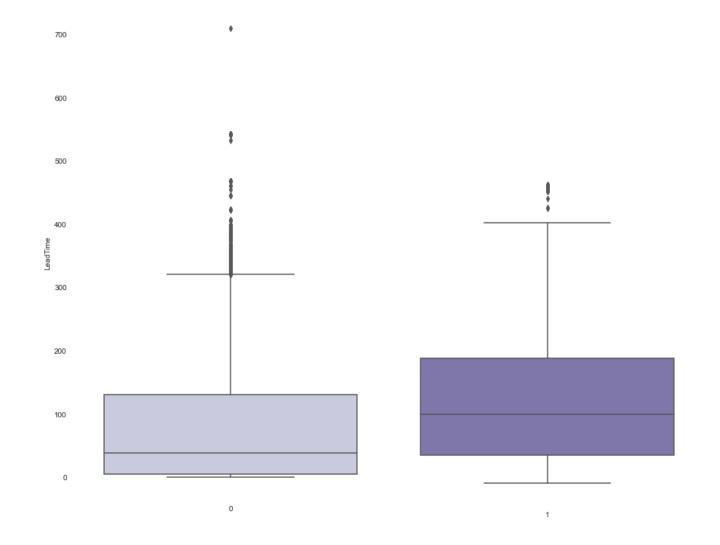
Who is our main guest?

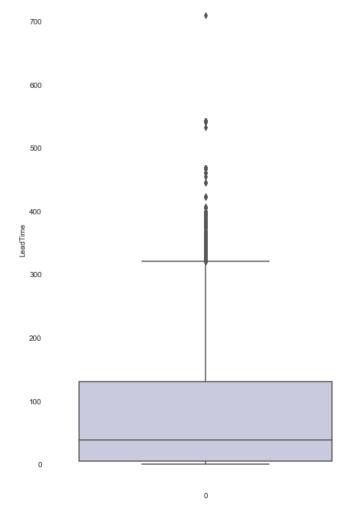
The hotel caters hugely to 2 adults assumed as couples and followed by individuals.

Individuals were found to be a part of corporate bookings

Why and when would you cancel?



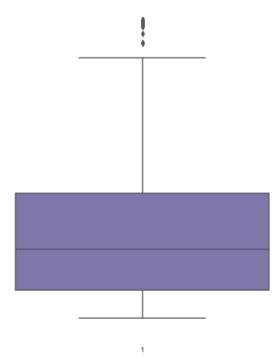


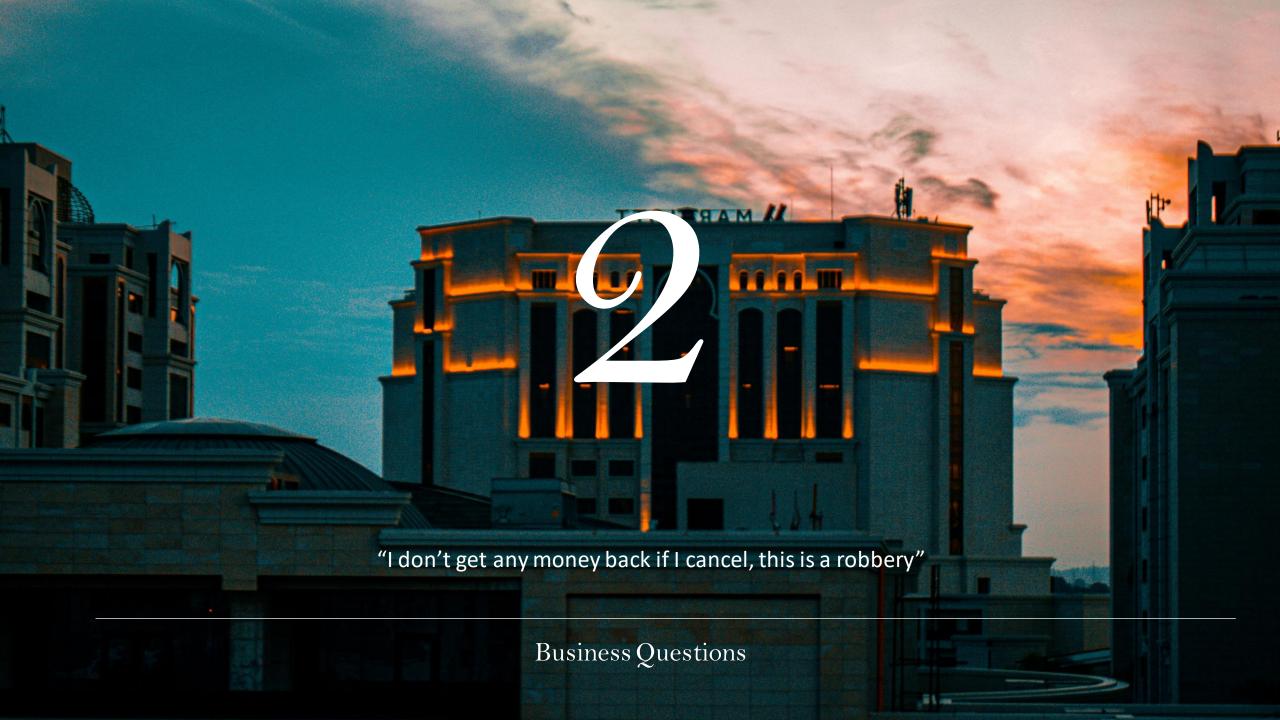


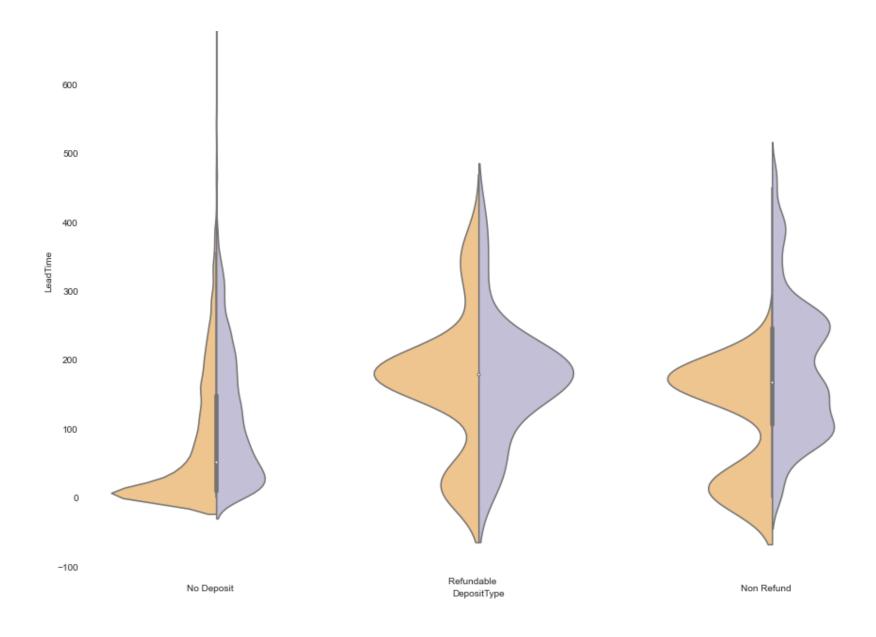
Influence of time between booking and check in

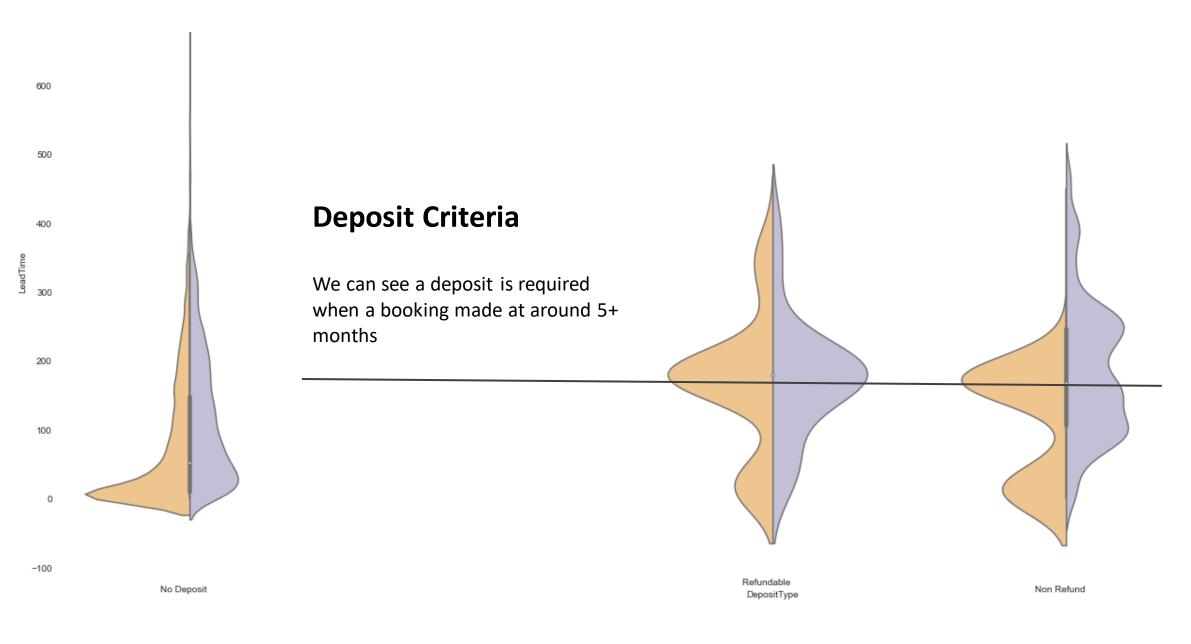
The majority bookings canceled were made more than 4 months before.

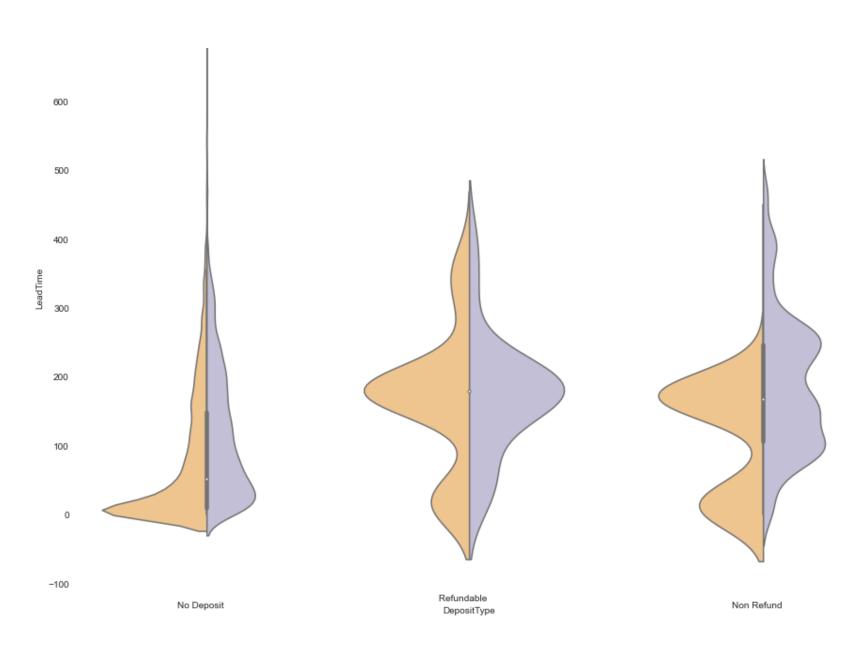
Reservations made a month before have lower cancelation chance





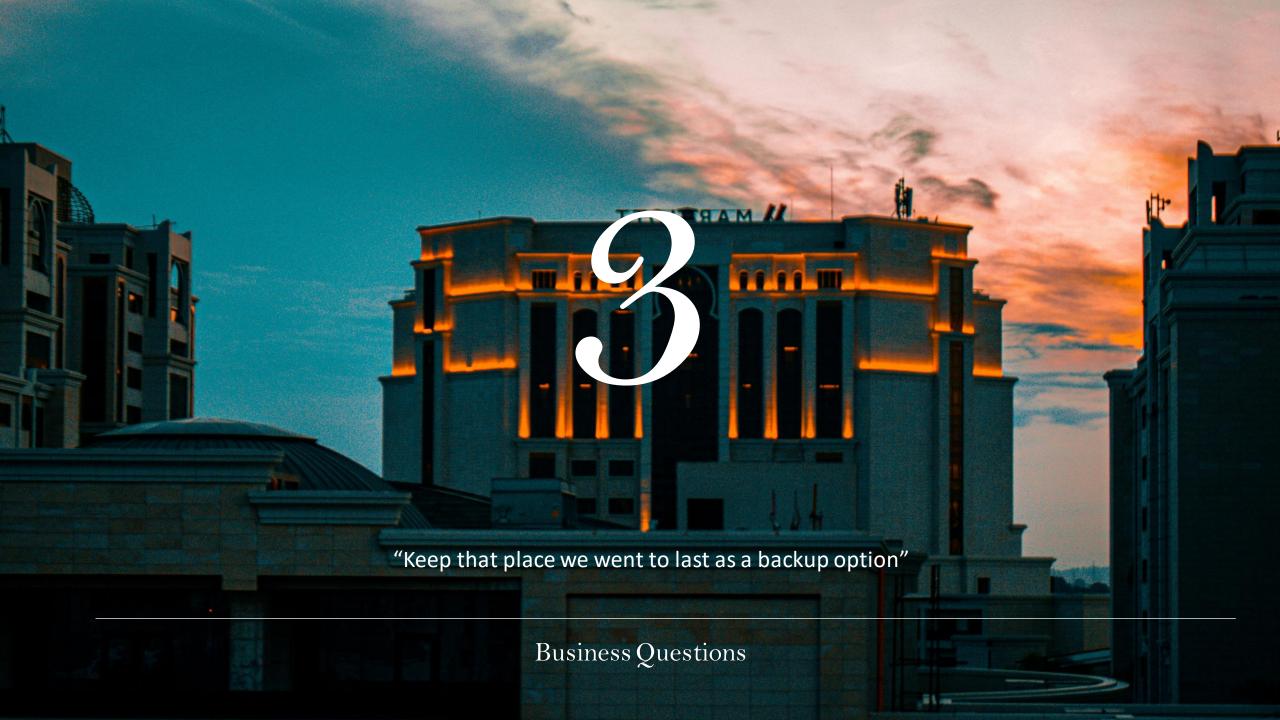


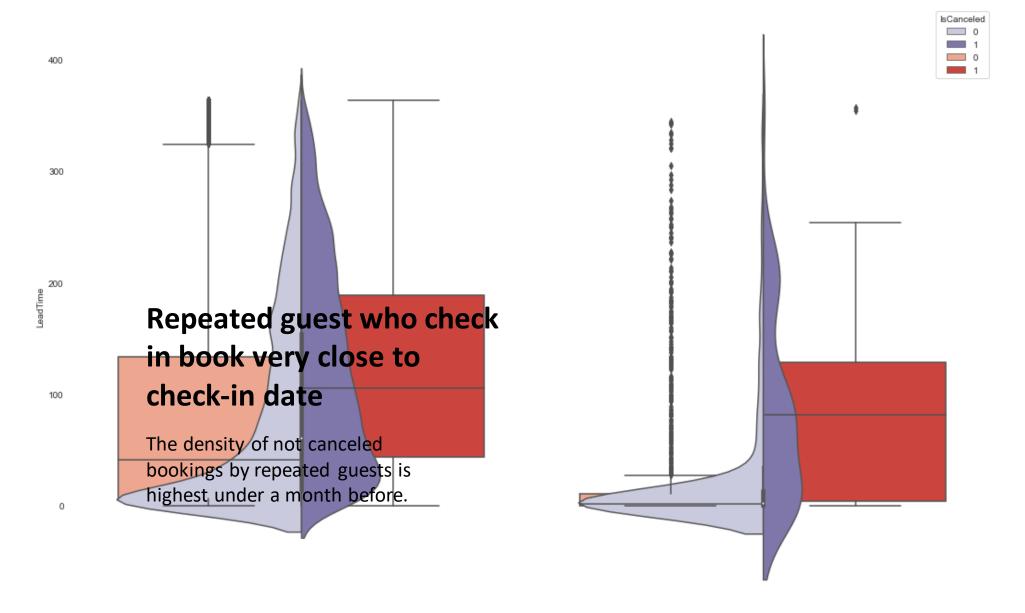


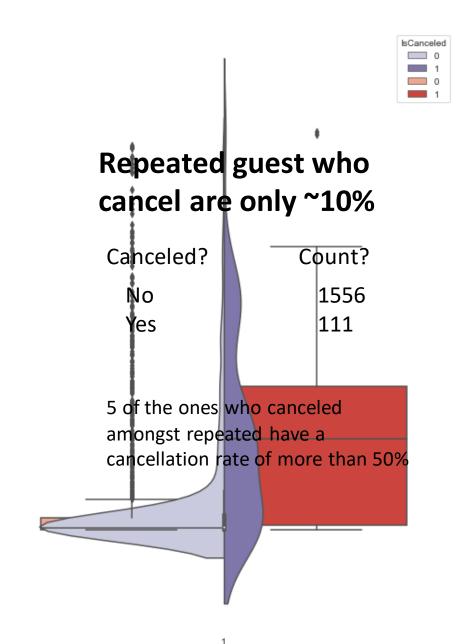


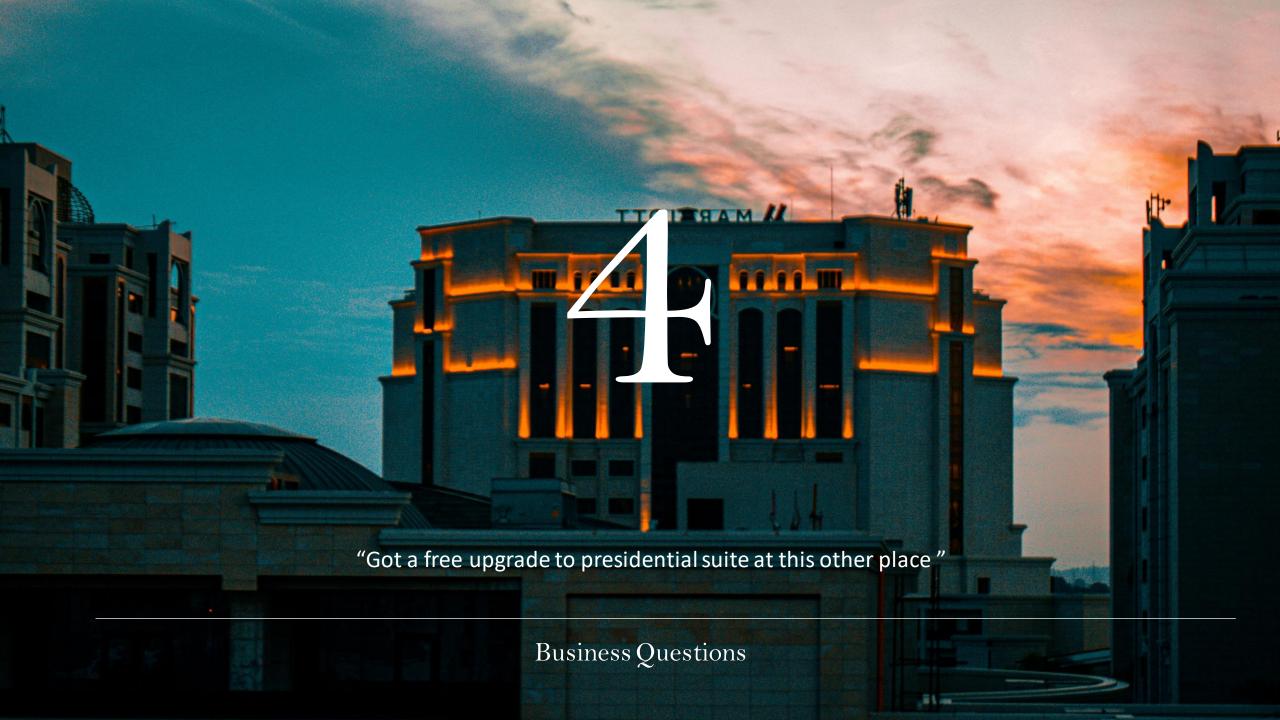
People paying full deposit are canceling.

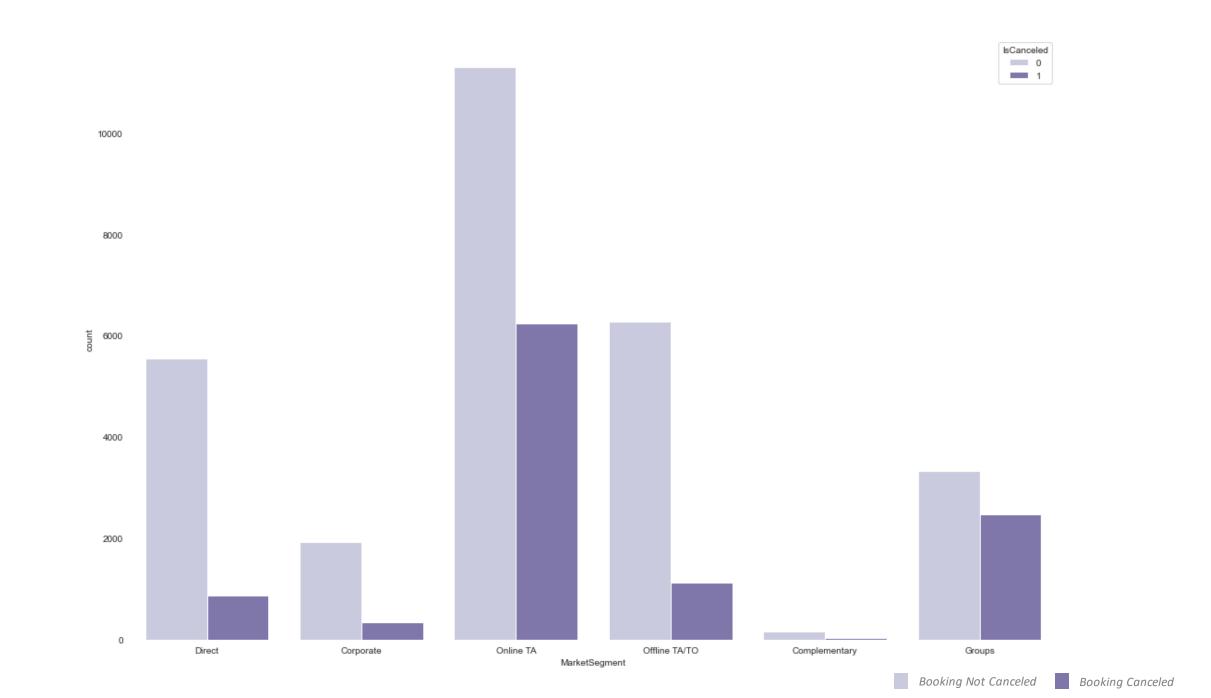
The cancelation for non-refund is spread out across all bookings.





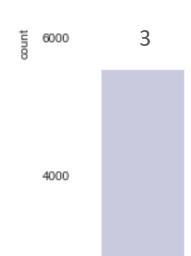




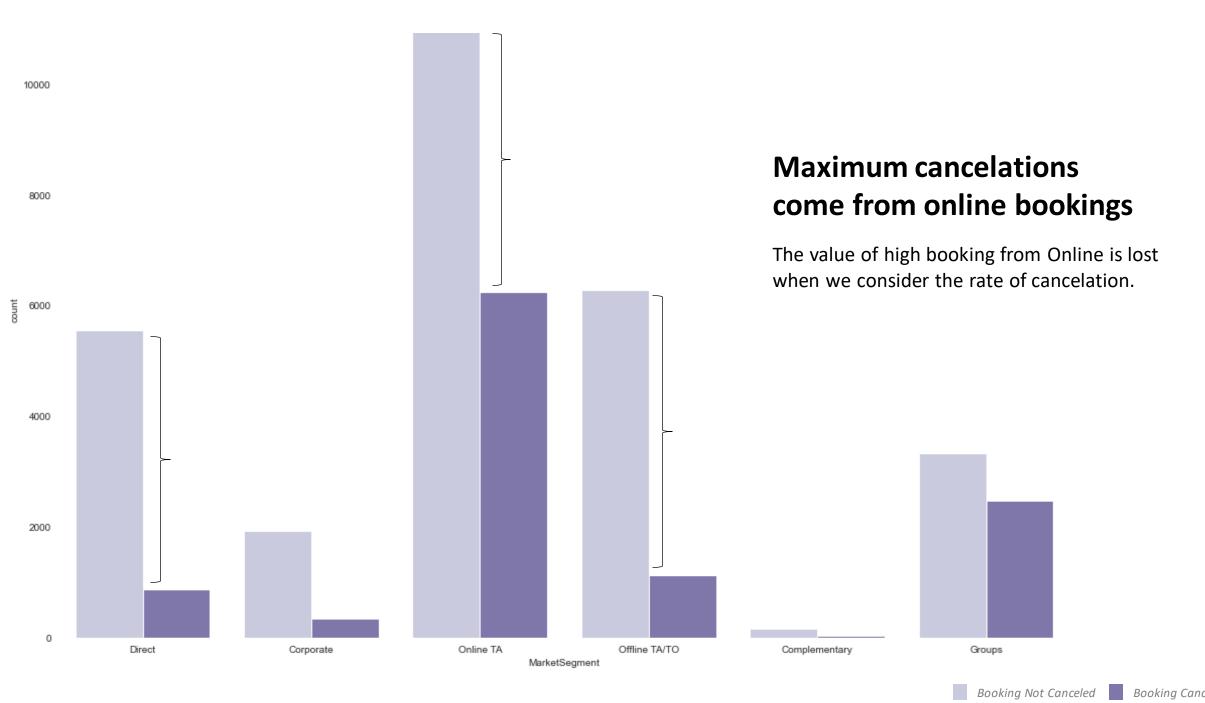


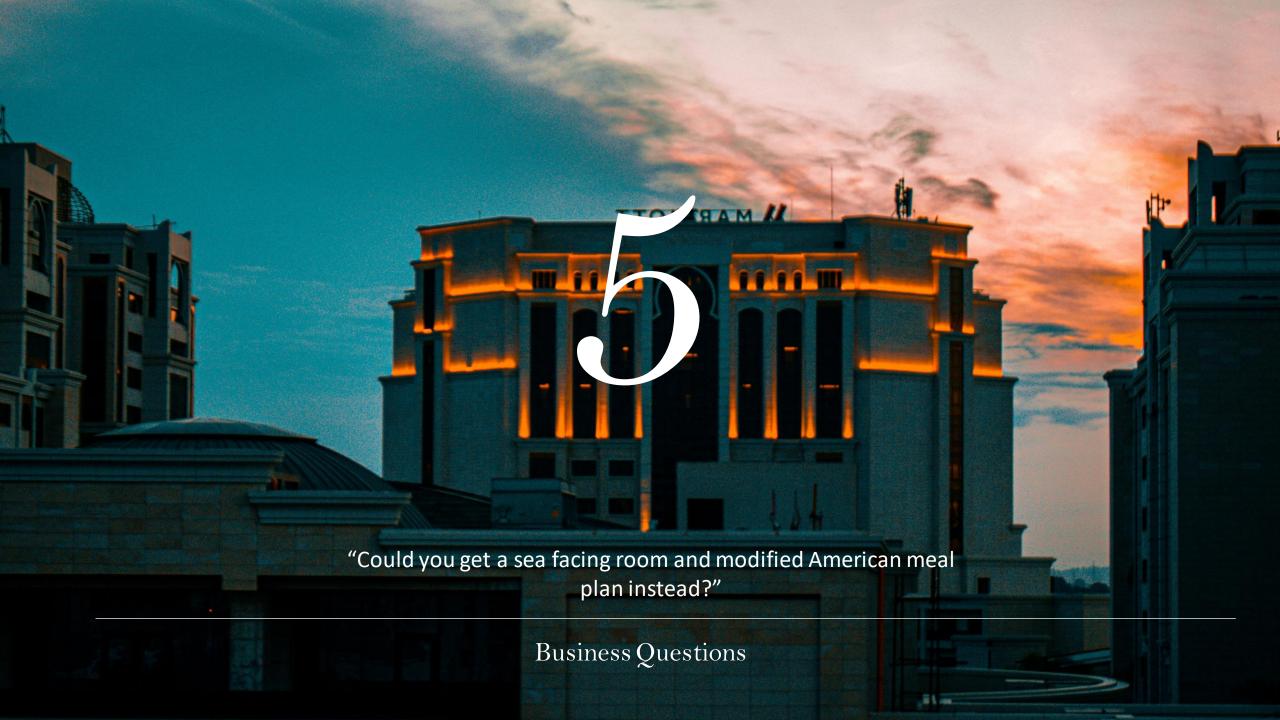
Most guest are coming from Online TA

The second best coming from Direct and Offline TA



2







In combination with special request like parking space and more

A pattern of commitment emerges, wherein cancelation rate drop considerably

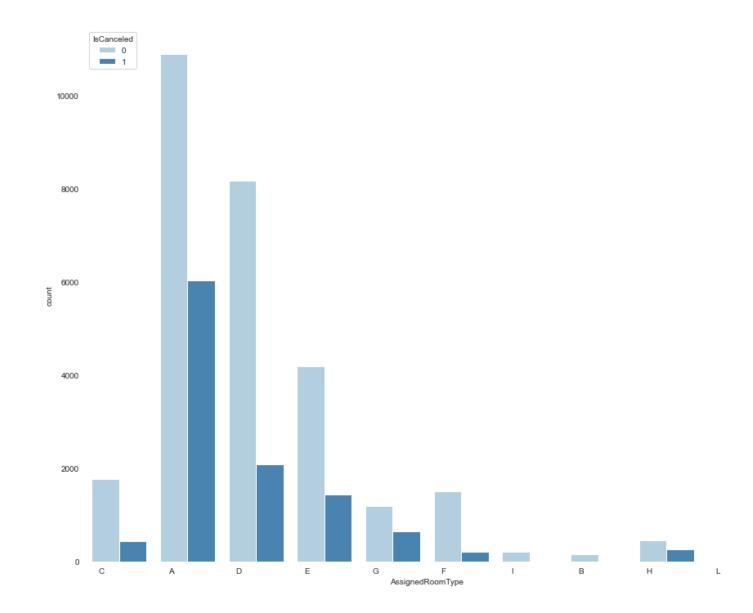


What can be done to reduce cancelation?

Allow reservations only 4 months into the future.

To reduce cancelation due to uncertainty don't allow reserving rooms well in advance.

Unless it's a **Group booking**, as they tend to follow through

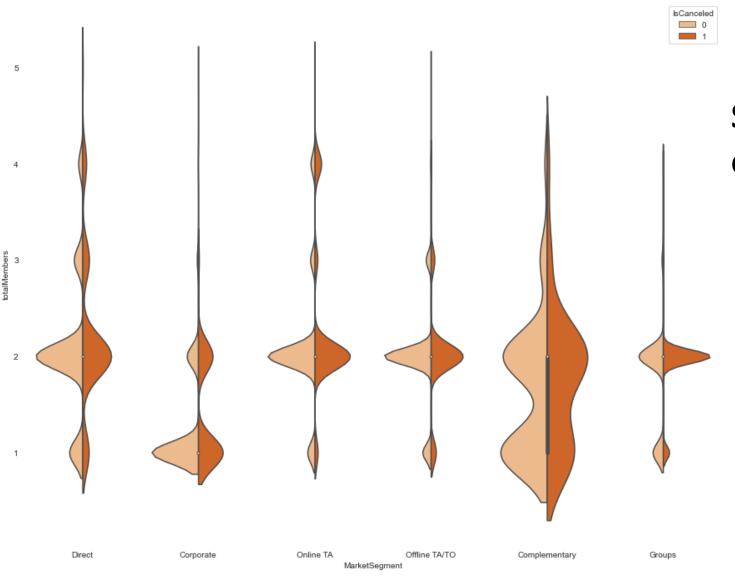


Increase capacity of room type A

Room type A is the most requested followed by D, C respectively

No significant influence of a room being assigned differently on cancelation, it is still beneficial to serve the guests' wishes





Supported by analysis of corporate

Corporate has the lowest cancelation rate after *offline TA*

Corporate brings single guests that form 17% of our dataset

