**Hotel booking demand**

This data contains booking information for a city hotel and a resort hotel, including information such as when reservation was made, length of stay, the number of adults, children, and/or babies, and the number of available parking spaces, among other things.

This data is ideal to practice exploratory data analysis (EDA) or building predictive models.

**Description**

1. Link Data: https://www.kaggle.com/datasets/jessemostipak/hotel-booking-demand
2. The Data contains of 119390 rows × 32 columns Hotel
3. Columns:

* Hotel: Hotel (H1 = Resort Hotel or H2 = City Hotel)
* Is canceled: Value indicating if the booking was canceled (1) or not (0)
* lead time: Number of days that elapsed between the entering date of the booking into the PMS and the arrival date
* arrival date year
* arrival date month
* arrival date week number
* arrival date day of month
* stays in weekend nights: Number of weekend nights (Saturday or Sunday) the guest stayed or booked to stay at the hotel
* stays in week nights: Number of week nights (Monday to Friday) the guest stayed or booked to stay at the hotel
* adults
* children
* babies
* meal: Type of meal booked.
* Country: Country of origin.
* market segment
* distribution channel
* is repeated guest: Value indicating if the booking name was from a repeated guest (1) or not (0)
* previous cancellations: Number of previous bookings that were cancelled by the customer
* previous bookings not canceled: Number of previous bookings not cancelled by the customer
* reserved room type: Code of room type reserved.
* assigned room type: Code for the type of room assigned to the booking.
* booking changes: Number of changes/amendments made to the booking from the moment the booking was entered on the PMS
* deposit type: Indication on if the customer made a deposit to guarantee the booking.
* Agent: ID of the travel agency
* Company: ID of the company/entity that made the booking or responsible for paying the booking.
* days in waiting list: Number of days the booking was in the waiting list before it was confirmed to the customer
* customer type: Type of booking
* adr: Average Daily Rate as defined by dividing the sum of all lodging transactions by the total number of staying nights
* required car parking spaces: Number of car parking spaces required by the customer
* total of special requests: Number of special requests made by the customer
* reservation status: Reservation last status,
* reservation status date: Date at which the last status was set.

**Analysis Questions**

* What are the most countries the guests came from?
* What are the most Market Segments the guests reserve from?
* How does the price vary over seasons?
* How does the price per night vary over the months?
* How does the price per night vary depends on Room Type?
* Average By Market Segment and Room type