

## Data Dictionary

1. **hotel:** Hotel name (Resort Hotel or City Hotel)
2. **is\_canceled:** Indicates whether the reservation was canceled (1) or not canceled (0).
3. **lead\_time:** The time between the booking date and the customer's arrival at the hotel (in days).
4. **arrival\_date\_year:** The year of the customer's hotel arrival.
5. **arrival\_date\_month:** The month of the customer's hotel arrival.
6. **arrival\_date\_week\_number:** The week number of the customer's hotel arrival. (Example: If the arrival date is in the 3rd week of 2015 → - arrival\_date\_week\_number = 3)
7. **arrival\_date\_day\_of\_month:** The day of the month the customer arrives at the hotel. (Example: Arrival on March 2nd → arrival\_date\_day\_of\_month = 2)
8. **stays\_in\_weekend\_nights:** Number of weekend nights (Saturday–Sunday) the customer stayed or booked at the hotel. (Example: Booked for 3 weekdays and 2 weekend nights → stays\_in\_weekend\_nights = 2)
9. **stays\_in\_week\_nights:** Number of weekday nights (Monday–Friday) the customer stayed or booked at the hotel. (Example: Booked for 3 weekdays and 2 weekend nights → stays\_in\_week\_nights = 3)
10. **adults:** Number of adults included in the booking.
11. **children:** Number of children included in the booking.
12. **babies:** Number of babies included in the booking.
13. **meal:** Type of meal plan booked. Undefined/SC: No meal included (self-catering option). BB: Bed & Breakfast option. HB: Half board (breakfast and one additional meal, typically dinner). FB: Full board (breakfast, lunch, and dinner).
14. **country:** Country of origin of the guest, formatted in ISO 3166-3:2013 standard (country codes can be referenced via the link).
15. **market\_segment:** Market segment. "TA" refers to "Travel Agent", "TO" refers to "Tour Operators".
16. **distribution\_channel:** Booking distribution channel. "TA" refers to "Travel Agent", "TO" refers to "Tour Operators".
17. **is\_repeated\_guest:** Indicates if the customer is a returning guest (1) or not (0).
18. **previous\_cancellations:** Number of prior reservations canceled by the customer before the current reservation.
19. **previous\_bookings\_not\_canceled:** Number of prior reservations not canceled by the customer before the current reservation.
20. **reserved\_room\_type:** Code of the room type originally reserved by the customer.
21. **assigned\_room\_type:** Code of the room type ultimately assigned to the customer. Differences between reserved and assigned room types may occur due to hotel management reasons (e.g., overbooking) or customer requests.
22. **booking\_changes:** Number of modifications made to the booking from the time it was reserved to check-in or cancellation.
23. **deposit\_type**  
No Deposit – no deposit was made;  
Non Refund – a deposit was made in the value of the total stay cost;  
Refundable – a deposit was made with a value under the total cost of stay.
24. **Agent:** ID of the travel agency that facilitated the booking.
25. **company:** ID of the company or organization responsible for booking or payment.

26. **days\_in\_waiting\_list:** Number of days the reservation remained on the waiting list before being confirmed.
27. **Customer\_type:** Type of booking, assuming one of four categories:
- a. Contract - when the booking has an allotment or other type of contract associated to it;
  - b. Group – when the booking is associated to a group;
  - c. Transient – when the booking is not part of a group or contract, and is not associated to other transient booking;
  - d. Transient-party – when the booking is transient, but is associated to at least other transient booking
28. **Adr:** Average Daily Rate as defined by dividing the sum of all lodging transactions by the total number of staying nights
29. **required\_car\_parking\_spaces:** Number of parking spaces requested by the customer.
30. **total\_of\_special\_requests:** Number of special requests made by the customer (e.g., twin beds, baby cribs, high floor, special view).
31. **reservation\_status:** Final status of the reservation, with three categories:
- a. Canceled: The customer canceled the booking.
  - b. Check-Out: The customer checked in and then checked out.
  - c. No-Show: The customer did not check in, and no reason is known.
32. **reservation\_status\_date:** Date when the final reservation status (reservation\_status) was set.