

	Data Type	Missing Values %	Unique Values %	Minimum Value	Maximum Value	DQ Issue
hotel	object	0.000000	0	nan	nan	No issue
is_canceled	int64	0.000000	0	0.000000	1.000000	No issue
lead_time	int64	0.000000	0	0.000000	737.000000	has 2396 outliers greater than upper bound (296.00) or lower than lower bound(-160.00). Cap them or remove them.
arrival_date_year	int64	0.000000	0	2015.000000	2017.000000	No issue
arrival_date_month	object	0.000000	0	nan	nan	No issue
arrival_date_week_number	int64	0.000000	0	1.000000	53.000000	No issue
arrival_date_day_of_month	int64	0.000000	0	1.000000	31.000000	No issue
stays_in_weekend_nights	int64	0.000000	0	0.000000	19.000000	has 220 outliers greater than upper bound (5.00) or lower than lower bound(-3.00). Cap them or remove them.
stays_in_week_nights	int64	0.000000	0	0.000000	50.000000	has 1531 outliers greater than upper bound (8.50) or lower than lower bound(-3.50). Cap them or remove them.

adults	int64	0.000000 0	0	0.000000	55.000000	has 22899 outliers greater than upper bound (2.00) or lower than lower bound(2.00). Cap them or remove them.
children	float64	0.004577	NA	0.000000	10.000000	4 missing values. Impute them with mean, median, mode, or a constant value such as 123., has 8364 outliers greater than upper bound (0.00) or lower than lower bound(0.00). Cap them or remove them.
babies	int64	0.000000 0	0	0.000000	10.000000	has 914 outliers greater than upper bound (0.00) or lower than lower bound(0.00). Cap them or remove them.
meal	object	0.000000 0	0	nan	nan	2 rare categories: ['Undefined', 'FB']. Group them into a single category or drop the categories.

								452 missing values. Impute them with mean, median, mode, or a constant value such as 123., 163 rare categories: Too many to list. Group them into a single category or drop the categories., Mixed dtypes: has 2 different data types: object, float,, high cardinality with 177 unique values: Use hash encoding or embedding to reduce dimension.
	country	object	0.517186	0	nan	nan		
	market_segment	object	0.000000	0	nan	nan		3 rare categories: ['Complementary', 'Aviation', 'Undefined']. Group them into a single category or drop the categories.
	distribution_channel	object	0.000000	0	nan	nan		2 rare categories: ['GDS', 'Undefined']. Group them into a single category or drop the categories.
	is_repeated_guest	int64	0.000000	0	0.000000	1.000000		has 3415 outliers greater than upper bound (0.00) or lower than lower bound(0.00).

						Cap them or remove them.
previous_cancellations	int64	0.00000 0	0	0.000000	26.000000	has 1685 outliers greater than upper bound (0.00) or lower than lower bound(0.00). Cap them or remove them.
previous_bookings_not_cancelled	int64	0.00000 0	0	0.000000	72.000000	has 3545 outliers greater than upper bound (0.00) or lower than lower bound(0.00). Cap them or remove them.
reserved_room_type	object	0.00000 0	0	nan	nan	3 rare categories: ['H', 'L', 'P']. Group them into a single category or drop the categories.
assigned_room_type	object	0.00000 0	0	nan	nan	5 rare categories: ['H', 'I', 'K', 'P', 'L']. Group them into a single category or drop the categories.
booking_changes	int64	0.00000 0	0	0.000000	21.000000	has 15902 outliers greater than upper bound (0.00) or lower than lower bound(0.00). Cap them or remove them.
deposit_type	object	0.00000 0	0	nan	nan	1 rare categories: ['Refundable']. Group them into a single

							category or drop the categories.
	agent	float64	13.951439	NA	1.000000	535.000000	12193 missing values. Impute them with mean, median, mode, or a constant value such as 123.
	company	float64	93.982562	NA	6.000000	543.000000	82137 missing values. Impute them with mean, median, mode, or a constant value such as 123.
	days_in_waiting_list	int64	0.000000	0	0.000000	391.000000	has 860 outliers greater than upper bound (0.00) or lower than lower bound(0.00). Cap them or remove them.
	customer_type	object	0.000000	0	nan	nan	1 rare categories: ['Group']. Group them into a single category or drop the categories.
	adr	float64	0.000000	NA	-6.380000	5400.000000	has 2490 outliers greater than upper bound (227.00) or lower than lower bound(-21.00). Cap them or remove them.
required_car_parking_spaces	int64	0.000000	0	0	0.000000	8.000000	has 7313 outliers greater than upper bound (0.00) or lower than lower bound(0.00).

total_of_special_requests	int64	0.000000 0	0			Cap them or remove them.
						has 2673 outliers greater than upper bound (2.50) or lower than lower bound(-1.50). Cap them or remove them.
				0.000000	5.000000	
reservation_status	object	0.000000 0	0			No issue
				nan	nan	
reservation_status_date	object	0.000000 0	1			926 rare categories: Too many to list. Group them into a single category or drop the categories., high cardinality with 926 unique values: Use hash encoding or embedding to reduce dimension.
				nan	nan	