Detailed Summary of the "hotel bookings" Data

General Information:

- Total Records: 119,390
- Columns: 18
- Timeframe: Data spans multiple years, starting from 2015.

Key Features:

- 1. Hotel Type: "Resort Hotel" or "City Hotel."
- 2. Cancellation Status (is_canceled):
 - o 0: Not Canceled
 - o 1: Canceled
- 3. Lead Time: Number of days between booking and arrival.
- 4. Arrival Details:
 - o arrival_date_year: Year of arrival
 - o arrival_date_month: Month of arrival
- 5. Stay Duration:
 - stays_in_weekend_nights: Weekend nights stayed
 - o stays_in_week_nights: Weekday nights stayed
- 6. Guest Information:
 - o adults, children, babies: Count of guests
 - o country: Origin of guests
- 7. Market Segment: Source of booking (e.g., Online TA, Corporate, Direct).
- 8. Room Booking:
 - reserved_room_type: Initial room booked
 - o assigned_room_type: Final room assigned
- 9. Reservation Status:
 - reservation_status: Final outcome (Check-Out, Canceled, No-Show)
 - o reservation_status_date: Date of status update

10. Other Attributes:

- room_status: Whether the assigned room was the desired one.
- guest_type: Type of guest (e.g., Couples, Single)

Summary of the "Pivot" Sheet

This sheet appears to be a summarized pivot table of hotel bookings.

Key Metrics:

• Guest Type Breakdown:

• Couples: 27,265 bookings (11,169 canceled)

o Families: 6,243 bookings (2,493 canceled)

• Singles: 7,179 bookings (2,083 canceled)

Cancellation Rate Analysis

From the **Pivot** sheet, the cancellation rates for different guest types are:

• Couples: 41% (11,169 out of 27,265)

• **Families**: **40%** (2,493 out of 6,243)

• **Singles**: **29%** (2,083 out of 7,179)

This suggests that couples and families tend to cancel more than single travelers.

Market Segment & Cancellation Trends

The **hotel_bookings** sheet has a market_segment column, which helps track where bookings come from:

- Online Travel Agents (OTAs)
- Direct bookings
- Corporate clients
- Groups

Typically, OTA bookings tend to have **higher cancellation rates**, while direct and corporate bookings are more stable.

Lead Time & Cancellation Correlation

• If lead time (number of days before check-in) is high, cancellation rates **tend to increase** because people book early but change plans.

If bookings have short lead times (last-minute bookings), they are less likely to cancel .					