

AtliQ Grands - Hospitality Analysis

Objective

To analyze booking, revenue, occupancy, and performance trends across AtliQ's hotel properties in various cities using datasets like `fact_bookings`, `fact_aggregated_bookings`, `dim_rooms`, `dim_hotels`, and `dim_date`. The aim is to generate actionable insights for improving operational efficiency and business outcomes in the hospitality domain.

Key Insights

1. Room Category Occupancy Rates

- **Presidential rooms** had the highest average occupancy ($\approx 59.3\%$).
- All room types (Standard, Premium, Elite, Presidential) hovered around 58–59% occupancy on average.

2. City-wise Occupancy

- **Delhi** had the highest average occupancy rate ($\approx 61.6\%$), followed by **Hyderabad**, **Mumbai**, and **Bangalore**.

3. Weekday vs. Weekend Trends

- **Weekend occupancy** was significantly higher (**72.39%**) than weekdays (**50.90%**), indicating stronger leisure demand.

4. June Monthly Occupancy by City

- In **June**, Delhi again led with **62.47%**, followed by Hyderabad (58.46%), Mumbai (58.38%), and Bangalore (56.58%).

5. Revenue Realized per City

- **Mumbai** generated the highest realized revenue (₹668M+), followed by **Bangalore**, **Hyderabad**, and **Delhi**.

6. Booking Platform Usage

- Top platforms: **Others**, **Makeyourtrip**, and **Logtrip**.
- Direct bookings (online/offline) made up a smaller share comparatively.

7. Overbooked Instances

- Several properties experienced bookings **exceeding capacity**, e.g., Property 17558 with 30 bookings vs. 19 capacity, and others.

8. Data Cleaning Issues Identified

- **Negative guest counts** and **outlier revenue values** were found and cleaned.
- Bookings with revenue over ₹2.94L (statistical outlier) were flagged and removed.



Visualizations Used

- **Bar Charts**

- Booking platforms distribution
- Average occupancy per city (especially for June)

- **Descriptive Statistics**

- Summary metrics for numerical columns.

- **Time-Based Analysis**

- Trends across weekdays vs. weekends

- **Occupancy Calculation**

- Calculated **OCC_Pct** to derive room utilization.

- **Data Merges**

- Combined datasets using `property_id` and `check_in_date` for comprehensive insights.
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Recommendations

1. Improve Weekday Occupancy

- Run mid-week promotional campaigns or offer business traveler discounts to improve weekday performance.

2. Capacity Management

- Address properties that consistently exceed capacity to avoid overbooking and guest dissatisfaction.

3. Optimize Platform Usage

- Encourage more **direct bookings** by offering loyalty rewards or exclusive discounts, reducing commission costs.

4. City-Based Strategy

- Invest more in high-performing cities like **Delhi and Mumbai**, and investigate reasons for lower performance in **Bangalore**.

5. Refine Room Category Strategy

- Since **Presidential rooms** show relatively better performance, explore bundling or upselling strategies for these room types.

6. Data Hygiene

- Implement stricter validation at the data entry point to prevent negative guest counts or improbable revenue values.

7. Expand August Data Integration

- Ensure new monthly datasets are routinely appended and harmonized to support continuous analysis.