## Hotel Data Analysis

### **Business Problem:**

Hotel management faces challenges in:

- Tracking revenue generation vs realization (actual payments).
- Understanding platform-wise booking performance.
- Analyzing room category performance.
- Monitoring key KPIs like occupancy, cancellation, and ratings.

## Objective:

Develop a Power BI dashboard to provide:

- Comparative revenue vs realization analysis.
- Platform and room-wise booking insights.
- Key KPIs to aid strategic decisions.

#### **Details About Data:**

The dashboard is built using data extracted from 5 CSV files. These CSVs form the metadata and fact data repository:

- 1. dim\_date:
- Contains dates from May to July.
- Fields include: date, mmm yy, week no, and day\_type (Weekend/Weekday).
- 2. dim\_hotels:
- Contains property details: ID, name, category (Luxury/Business), and city.
- 3. dim\_rooms:
- Contains room\_id and associated room\_class (Standard, Elite, Premium, Presidential).
- 4. fact\_aggregated\_bookings:
- Daily aggregated room bookings per property, including capacity and success counts.

#### 5. fact\_bookings:

- Detailed booking records: booking IDs, guest details, booking and stay dates, room category, booking platform, rating, status, revenue generated, and revenue realized.

### Dashboard Highlights:

- 1. Revenue vs Realization:
- Shows weekly revenue generation vs realization with difference.
- Business Value: Identifies payment lags.
- 2. Revenue Share and Realization % by Room Category:
- Displays each room category's contribution and realization efficiency.
- Business Value: Highlights profitable room types.
- 3. Room Category Share (%):
- Visualizes booking distribution by room type.
- Business Value: Reveals guest preferences.
- 4. Booking Platform Share %:
- Shows % bookings from each platform.
- Business Value: Identifies top-performing channels.

#### 5. KPI Cards:

- Avg\_Rating, Revenue, Bookings, Occupancy%, Cancelled%.
- Business Value: Instant performance snapshot.

# Data Insights:

- 1. The total revenue generated from May to July(92 days) is around 2008millions.
- 2. Revenue realization is 85% of total revenue generated.
- 3. Total number of bookings are 135k and 25% of bookings got cancelled and 5% people didn't show up.
- 4. The Average rating of hotel is 3.62.
- 5. Most of the people prefer RT2 category of rooms and it generates the highest revenue.

- 6. 41% of the bookings are being done by methods other than the registered ones followed by makeyourtrip.
- 7. Hotel Aroma Palace generates Highest revenue and Aroma Seasons the least.
- 8. Bangalore unit tops the revenue generation list followed by Hyderabad.