Analytics Case Study

AtliQ Grands Hospitality Domain

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Business Objective

- AtliQ Grands is a company that owns multiple hotels across various cities of India.
- AtliQ Grands aims to regain its market share and revenue in the hotels, which has been declining due to strategic moves by competitors and ineffective decision-making..
- The goal is to leverage Business and Data Intelligence to make informed decisions, optimize operations, and improve market competitiveness.

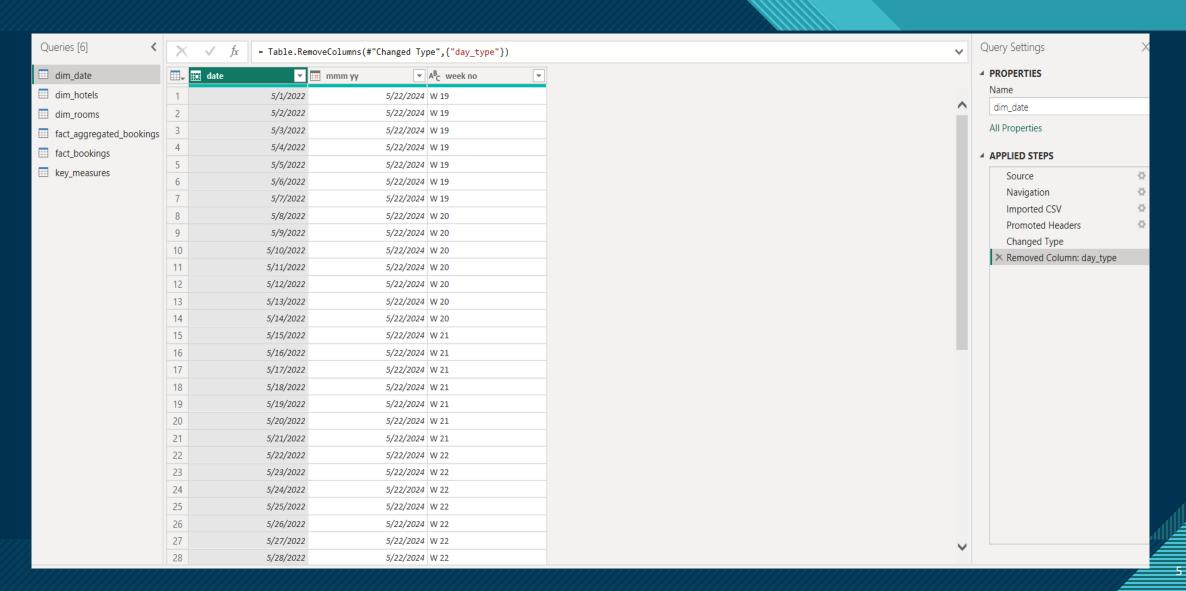


- Data Analysis: Analyze historical data provided by AtliQ Grands to extract meaningful insights and trends.
- Metric Creation: Develop key performance indicators (KPIs) and metrics that align with the business objectives and are required for decision-making.
- Dashboard Development: Design and create a dashboard based on the mock-up
 provided by stakeholders, ensuring it effectively visualizes the
 necessary metrics.
- Insight Generation: Identify and present additional insights beyond the given metric list that could help AtliQ Grands improve their strategic decision-making.

Data Collection & Preparation

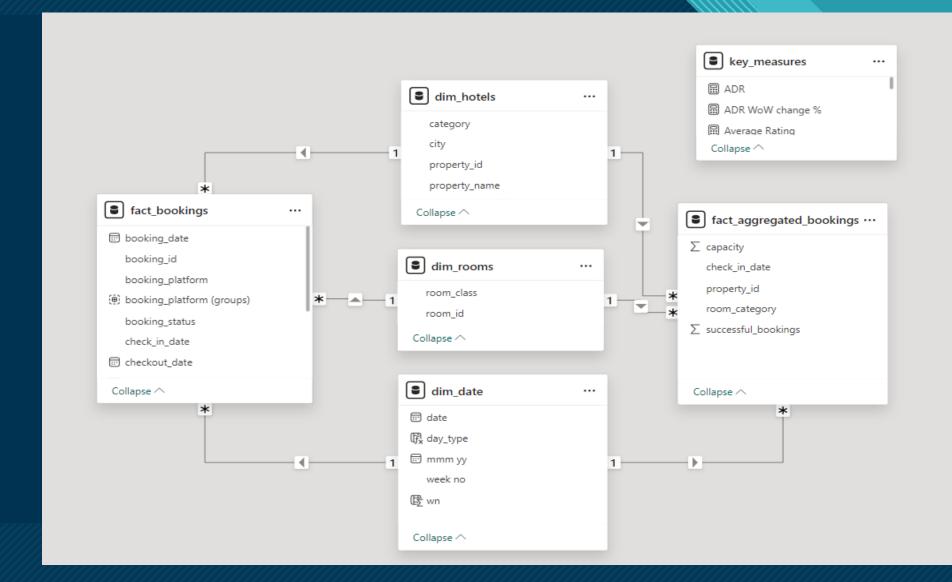
- There are 5 tables provided for tracking revenue, 3 dimension tables (date, hotel, room) and 2 fact tables (bookings, aggregated bookings)
- Power BI was the tool used for creating the visualization/dashboard
- The data was imported, analyzed and transformed as per necessity within Power Query
- The relationships between the tables were created within Power Pivot

Data Cleaning/Transformation





Data Modelling



Metric Development

- A few metrics were created to calculate the KPIs as shown below:
 - **Revenue** = Sum of revenue_realized from Bookings table (in Rs.)
 - Total bookings = Count of booking_id from Bookings table
 - **Avg rating** = Average of ratings from Bookings table
 - **Total capacity** = Sum of capacity from Aggregated bookings table
 - Total successful bookings = Sum of successful bookings from Aggregated bookings table

Metric Development

- A few metrics were created to measure the KPIs as shown below:
 - Occupancy rate = Total successful bookings / Total capacity (in %)
 - Total cancelled bookings = Count of booking_id with status = 'cancelled' from Bookings table
 - Cancellation rate = Total cancelled bookings / Total bookings (in %)
 - ADR (Average Daily Rate) = the measure of the average paid for rooms sold in a given time period
 - Booking Rate by Platform = contribution of each booking platform for bookings in hotels

Dashboard



AtliQ Hospitality Dashboard



Revenue

1.7bn ... !

Occupancy %

57.8%



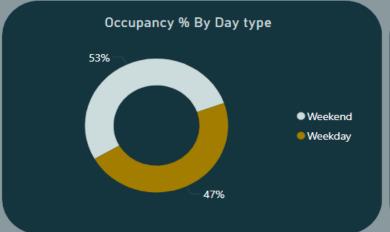
Filters

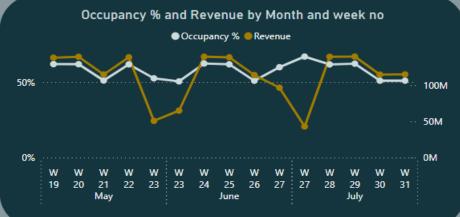
City

All

Booking Platform

All



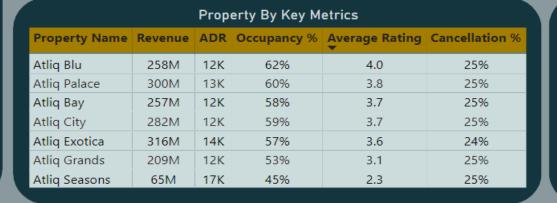


Room Class

All ~

Month

All ~







Features of Dashboard

- The following visuals were provided:
 - Occupancy Rate By Day Type = Donut chart shows the percentage of rooms occupied by
 weekend and weekday
 - Occupancy Rate and Revenue = Line chart shows the distribution of revenue and occupancy
 by Month and week no rate by month and week no

- Bookings Rate By Platform = Column chart shows the distribution of percentage of bookings
 based on booking Platform
- **KPI Table** = A matrix visual (pivot table) showing the various KPIs across each property



Features of Dashboard

- Card visuals were placed in to show the values of important KPIs
- The following filters were provided to slice and dice the data:
 - City
 - Booking platform
 - Room Class
 - Month
- The theme of the dashboard is based on the hospitality industry
- The visuals are interactive in nature
- Tooltips pop-up when hovering over a visual for more information about the data point

- Improve Occupancy Rate:
 - Since weekend occupancy rates are higher (53%) than weekdays (47%), consider offering weekday promotions or discounts to increase occupancy during slower periods.
 - Properties like AtliQ Seasons with a low occupancy rate (45%) should be analyzed to identify the reasons. Consider targeted marketing or improving facilities to attract more guests.

- Enhance Customer Experience:
 - **AtliQ Seasons** has the lowest average rating (2.3). Investigate customer feedback and implement improvements in service quality, cleanliness, or facilities to boost customer satisfaction.
 - AtliQ Blu and AtliQ Exotica have relatively good ratings (4.0 and 3.6, respectively).

 Continue to focus on customer service in these properties to maintain or improve these ratings.

- Optimize Revenue Management:
 - AtliQ Exotica has the highest ADR (14K) but only 57% occupancy. Consider adjusting pricing strategies during low-demand periods to balance occupancy and revenue.
 - Properties like AtliQ Palace and AtliQ Blu are generating high revenue. Explore opportunities to upsell or introduce premium services in these high-performing properties.

- Diversify Booking Platforms:
 - **Direct online** and **offline** bookings are relatively low. Invest in marketing strategies to encourage more direct bookings, which typically have lower commission fees compared to third-party platforms.
 - Continue strong partnerships with top-performing platforms like "Others" (41%) and "Makeyourtrip" (20%). Consider negotiating better terms or increased visibility on these platforms.

Reduce Cancellation Rates:

• All properties show a cancellation rate of 25%. Understanding the reasons behind cancellations could help in implementing policies to reduce this rate, such as more flexible booking options or cancellation penalties.

Monitor Trends and Make Data-Driven Decisions:

• The dashboard shows fluctuating trends in occupancy and revenue. Regularly monitor these trends to adjust marketing strategies, staffing, and pricing in response to demand changes.



- The dashboard highlights key performance indicators for AtliQ Hospitality, showing strong overall revenue and occupancy rates.
- Increase bookings on weekdays, especially in underperforming properties like AtliQ Seasons.
- Improve services in properties with lower ratings to boost guest satisfaction.
- Investigate and reduce high cancellation rates across all properties.
- Adjust pricing in properties with high ADR but low occupancy to balance revenue.
- Focus on increasing direct bookings while maintaining strong partnerships with top-performing platforms.
- Regularly track occupancy and revenue trends to make data-driven decisions for sustained growth and efficiency.

THANK YOU!