

Codebasics Resume Project Challenge #1

Provide Insights to the Revenue Team in the Hospitality Domain

Domain: Hospitality

Function: Revenue





• AtliQ Grands owns multiple five-star hotels across India. They have been in the hospitality industry for the past 20 years. Due to strategic moves from other competitors and ineffective decision-making in management, AtliQ Grands are losing its market share and revenue in the luxury/business hotels category. As a strategic move, the managing director of AtliQ Grands wanted to incorporate "Business and Data Intelligence" to regain their market share and revenue. However, they do not have an in-house data analytics team to provide them with these insights.

Their revenue management team had decided to hire a 3rd party service provider to provide them with insights from their historical data.

Objective:

- The objective of this comprehensive business insights dashboard is to provide stakeholders with a centralized platform to monitor and analyse key performance indicators.
- Metrics relevant to the hotel industry are implemented to provide relevant insights and facilitate datadriven decision-making, identify trends, and uncover actionable insights tailored for AtliQ Grand.

Database Info:

The dataset comprises of 5 csv files including, 3 dimension tables and 2 fact tables.

- ▶ dim_date : Dataset includes day type(weekday or weekend) , months (May 2022 July 2022) ,week no. W19 –W32.
- **dim_hotels**: Dataset includes property id, property name, category and the cities.
- **dim_rooms**: Dataset includes room id, room class (Elite, Presidential) etc.
- ➤ fact_aggregated_bookings : Database stores information about hotel bookings including booking dates, booking platforms, no. of guests, revenue collection, check-in & out dates etc.
- ➤ fact_bookings : Database contains hotel id, successful bookings & capacity.

Database Categories:

Category

- Business
- Luxury

City

- Delhi
- Mumbai
- Bangalore
- Hyderabad

Day Type

- Weekday
- Weekend

Booking Platform

- Direct Offline
- Direct Online
- Logtrip
- Makeyourtip
- Tripster
- Others

Room Class

- Elite
- Standard
- Premium
- Presidential

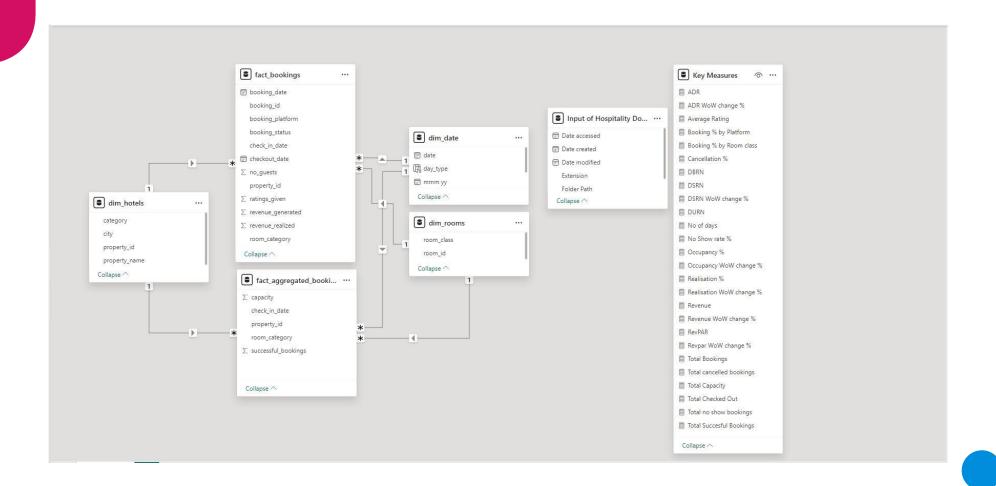
Property Name

- AtliQ Exotica
- AtliQ Palace
- AtliQ City
- AtliQ Blu
- AtliQ Bay
- AtliQ Grands
- AtliQ Seasons

Industry Specific Measures:

- **Average Daily Rate (ADR):** The percentage of revenue to all rooms sold or reserved. a measurement of the typical price received for rooms sold over a specific duration.
- **Realization%:** The percentage of successfully "checked out" reservations across all reservations.
- **Revenue Per Available Room (RevPAR):** Regardless of whether a room is occupied, RevPAR shows the amount of money made per available room. It gauges revenue-generating efficiency to set hotel prices precisely. Hotels can assess their performance by comparing it to other properties or brands using RevPAR.
- **Daily Booked Room Nights (DBRN):** This indicator indicates the average number of rooms reserved for a given time frame in a given day.
- **Daily Sellable Room Nights (DSRN):** Taking a time period into account, this indicator indicates the average number of rooms that are available for sale in a given day.
- **Daily Utilized Room Nights (DURN):** Based on a time period, this indicator indicates the average number of rooms that guests successfully use in a given day.

Data Model:



SNAPSHOTS









AtliQ Hospitality Dashboard







May 22 Jun 22 Jul 22 W 19 W 20 W 21 W 22 W 23 W 24 W 25 W 26 W 27 W 28 W 29 W 30 W 31

 Revenue
 RevPAR
 DSRN

 1.71bn
 7,347
 2,528

 → -81.74%
 ↑ 27.84%
 ○ 0.00%

 Occupency %
 ADR
 Realisation %

57.87% ↑ 28.11%

12,696 № -0.21%

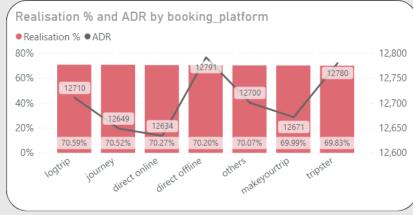
70.15%

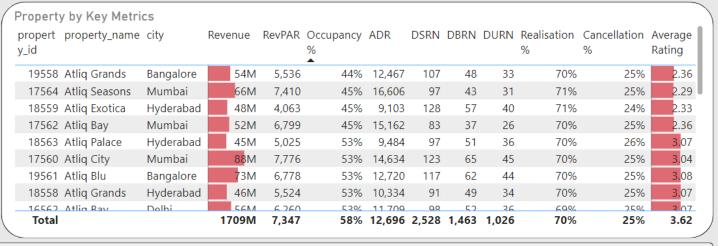
1 0.64%

	RevPAR	Occupancy %	ADR	Realisation %
Weekday	7,101.15	55.99%	12,683.18	69.95%
Weekend	7,971.63	62.64%	12,725.49	70.59%
Total	7,347.15	57.87%	12,696.12	70.15%











RevPAR - Revenue per available room | DSRN - Daily Sellable room nights | DBRN - Daily Booked room nights | DURN - Daily Utilized room nights | ADR - Average Daily Rate

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Revenue
1.71bn

Occupancy % **57.87%**

Average Rating and Occupancy % by month and week no

25

Jun 22

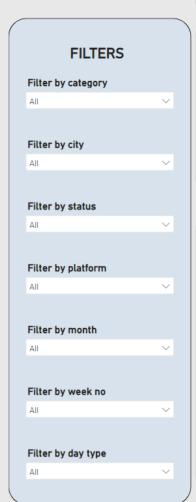














Average RatingOccupancy%

19 20 21 22 23 23 24

May 22

3.66

3.65

3.64

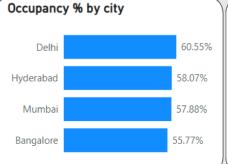
3.63

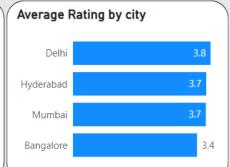
3.62

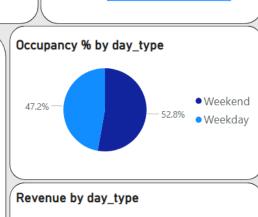
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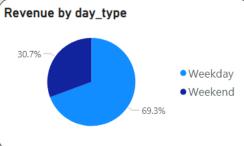
3.60

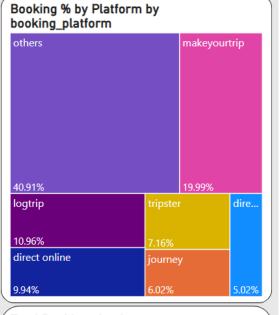
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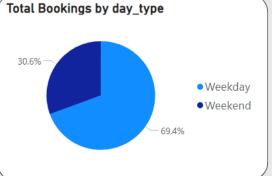














RevPAR - Revenue per available room | DSRN - Daily Sellable room nights | DBRN - Daily Booked room nights | DURN - Daily Utilized room nights | ADR - Average Daily Rate

65%

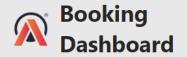
60%

55%

50%

26 27 27 28 29 30 31

Jul 22



Revenue 1.71bn Occupancy % 57.87%





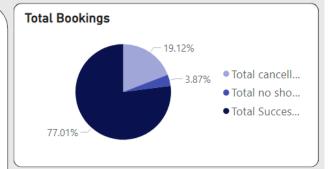


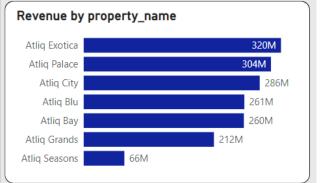


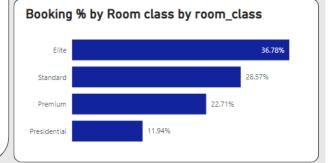


FILTERS	
Filter by category	
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All	~
Filter by day type	
All	~

/														
F	roperty	by Key I	Metrics											
		propert y_name	city	Reve	enue	RevPAR	Occup ancy %	ADR	DSRN	DBRN	DURN	Realisa tion %	Cancella tion %	Average Rating
	16563	Atliq Palace	Delhi		89M	8,281	66%	12,472	117	78	54	70%	25%	4.27
	17561	Atliq Blu	Mumbai		74M	9,452	66%	14,262	85	56	39	70%	25%	4.30
	17563	Atliq Palace	Mumbai		102M	10,609	66%	16,019	104	69	49	71%	24%	4.29
	18560	Atliq City	Hyderabad		61M	6,084	66%	9,191	109	72	51	71%	24%	4.26
	17559	Atliq Exotica	Mumbai		94M	10,116	66%	15,304	101	67	47	71%	24%	4.32
	16559	Atliq Exotica	Mumbai		118M	10,640	66%	16,142	121	80	56	70%	25%	4.32
	16558	Atliq Grands	Delhi		36M	7,538	66%	11,437	52	34	24	70%	25%	4.25
	18562	Atliq Bay	Hyderabad		69M	6,221	66%	9,444	121	80	56	70%	25%	4.30
	19562	Atliq Bay	Bangalore		82M	9,335	66%	14,185	96	63	45	70%	24%	4.28
	16561	Atliq Blu	Delhi		58M	8,626	66%	13,113	73	48	34	70%	26%	4.28
	19560	Atliq City	Bangalore		82M	8,989	66%	13,694	99	65	45	69%	26%	4.28
	18561	Atliq Blu	Hyderabad		56M	5,693	66%	8,678	107	70	49	70%	24%	4.25
	19559	Atliq Exotica	Bangalore		60M	6,868	54%	12,757	95	51	36	71%	24%	3.05
	16560	Atliq City	Delhi		55M	6,285	54%	11,705	95	51	36	71%	24%	3.01
	17558	Atliq	Mumbai		75M	7,964	54%	14,839	102	55	38	70%	26%	3.05
	Total			17	709M	7,347	58%	12,696	2,528	1,463	1,026	70 %	25%	3.62









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RevPAR - Revenue per available room | DSRN - Daily Sellable room nights | DBRN - Daily Booked room nights | DURN - Daily Utilized room nights | ADR - Average Daily Rate

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Key Insights:

- Three months' total revenue from all hotels combined is **1.71 billion**, with an average rating of **3.62**.
- Mumbai City generates 39.1% (669M) of all revenue.
- **Delhi** brings in the least amount of money, **17.2% (295M)**.
- Over the time period of May 2022 to July 2022, there have been **134,59K** total bookings and **57.87%** occupancy.
- **Delhi** has the highest average ratings (3.78) and occupancy rate (60.55%).
- Out of all the hotels, **Hotel AtliQ Blu** has the highest rating. The hotel has an average rating of 3.96 & **Hotel AtliQ Seasons** has the lowest rating (2.29).
- The **Elite (RT2 class)** room category generates the highest revenue of any category which is **560.27M**.
- Occupancy rates on weekends are **consistently higher** than on weekdays. The ADR for weekdays and weekends is not significantly different.

Key Insights:

- The standard, elite, premium, and presidential rooms have average daily rates of **8.05K**, **11.32K**, **15.12K**, **and 23.44K**, respectively.
- In comparison to other booking systems, straight offline booking offers a greater Average Daily Rate (ADR).
- **Delhi** has the highest average ratings (3.78) and occupancy rate (60.55%).
- Of all the booking sources, **40%** come from **other** travel platforms and channels. These are the main sources of reservations and revenue whereas the second best booking source is makeyourtrip (20%). Finally, Direct offline booking contributes the least to bookings and revenue generation, with 5%.
- The majority of reservations and income come from the **Luxury** room category. The largest income contributor is Mumbai City, which is followed by Hyderabad, Bangalore, and Delhi.
- Average ratings and revenue are **correlated** in that higher ratings typically translate into higher revenue.

Recommendations:

- Using dynamic pricing techniques, especially raising prices on weekends and during peak days when demand is high, can help AtliQ Grands to increase revenue generation.
- Differential pricing techniques should be investigated by AtliQ Grands in order to boost bookings and revenue on offline booking platforms. This entails introducing promotions and marketing initiatives that are specifically designed to draw in clients, sometimes from a new market niche.
- AtliQ Grands should pay more attention to client feedback and ratings in order to further raise customer satisfaction. Resolving the important issues raised in these reviews demonstrates a dedication to improving the client experience as a whole.
- Investigating ways to boost direct bookings through the hotel website can help decrease dependency on outside online booking services. To encourage clients to book directly and avoid commission fees, AtliQ Grands may think about providing incentives, special promotions, or other benefits.

End Note:

• By using Power BI for data analysis, important insights into several aspects of managing the AtliQ Grands Hotel have been discovered. The findings and recommendations drawn from this process have the potential to maximize work productivity, improve client happiness, and stimulate income development. The hotel will continue to be successful if important metrics are consistently tracked and analyzed.

THANK YOU!

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